

CENSUS BULLETIN.

No. 107.

WASHINGTON, D. C.

November 1, 1901.

MANUFACTURES.

COLORADO AND UTAH.

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Director of the Census.

SIR: I transmit herewith, for publication in bulletin form, the statistics of manufacturing and mechanical industries for the states of Colorado and Utah for the census year 1900, taken in accordance with the provisions of section 7 of the act of March 3, 1899. This section requires that "The schedules of inquiries relating to the products of manufacturing and mechanical establishments shall embrace the name and location of each establishment; character of organization, whether individual, cooperative, or other form; date of commencement of operations; character of business or kind of goods manufactured; amount of capital invested; number of proprietors, firm members, copartners, or officers, and the amount of their salaries; number of employees, and the amount of their wages; quantity and cost of materials used in manufactures; amount of miscellaneous expenses; quantity and value of products; time in operation during the census year; character and quantity of power used; and character and number of machines employed."

In each of the above particulars the requirements of the law have been observed, but certain of the data thus elicited are reserved for publication in the final volumes.

These statistics were gathered by census enumerators, except for Aspen, Colorado Springs, Cripple Creek, Denver, Leadville, Pueblo, Trinidad, and Victor in Colorado, and Brigham, Lehi City, Logan, Ogden, Park City, Provo City, Salt Lake City, and Springville in Utah. These cities were withdrawn from the enumerators and assigned to special agents, in accordance with the further provision of section 7 of the Census Act. The cities of Colorado Springs, Denver, and Pueblo in Colorado, and Salt Lake City in Utah, each contains a population of 20,000 or more; and the manufacturing statistics of these cities, with the exception of Colorado Springs, are presented in detail by industries and in comparison with the returns of the Eleventh Census. Colorado Springs, not being in the true sense a manufacturing city, only the totals for all its industries are presented in connection with those of the

other cities withdrawn from the enumerators. Wherever the phrase "urban manufactures" is used in this bulletin, it applies only to those cities which were withdrawn from the enumerators and committed to special agents, and only to manufacturing establishments within the corporate limits of such places.

The statistics of Colorado and Utah are presented in tables showing the comparative figures at the several censuses; the industries divided between the hand trades and the manufactures proper, also the statistics of educational and penal institutions, and establishments with a product of less than \$500, which two latter classes were not reported at previous censuses; the totals of the cities of Denver and Pueblo in Colorado at the censuses of 1890 and 1900 as compared with the totals of the state, and the totals of Salt Lake City in Utah at the censuses of 1880, 1890, and 1900; the totals for the industries in cities withdrawn from the enumerators and assigned to special agents, placing them in comparison with the totals for the state and the state exclusive of these cities; the totals for the state by counties; the totals for the state by specified industries; the totals by specified industries for Denver and Pueblo in Colorado, and Salt Lake City in Utah; and the totals for all industries in each of the cities withdrawn from the enumerators, exclusive of those for Denver and Pueblo in Colorado, and Salt Lake City in Utah. For Colorado there is also a comparative table showing the statistics of the 8 leading industries of the state for 1890 and 1900.

Table 1 shows the growth of manufactures in these states; since 1870 in the case of Colorado, and since 1850 in the case of Utah. The manufacturing statistics of the censuses prior to 1850 were too imperfect and fragmentary in character to make it proper to reproduce them in such a table as a measure of industrial growth in the first half of the century. Owing to changes in the method of taking the census, and for other reasons noted in the remarks which accompany each of these tables, comparisons between the figures of earlier and later censuses should be drawn only in a most general way. Nevertheless, the rate

of growth in the manufactures of Colorado and Utah may be fairly inferred from the figures given. Manufactures, though rising rapidly into importance in these states, especially in Colorado, must take second place to the great mining industries of the region. The most important manufacturing industries in each state are the smelting and refining of copper and lead ores, industries so closely identified with mining that their statistics were included in the reports on mining at the censuses of 1880 and 1890.

In drafting the schedules of inquiry for the census of 1900 care was taken to preserve the basis of comparison with prior censuses. Comparison may be made safely with respect to all the items of inquiry except those relating to capital, salaried officials, clerks, etc., and their salaries, the average number of employees, and the total amount of wages paid. Live capital, that is, cash on hand, bills receivable, unsettled ledger accounts, raw materials, stock in process of manufacture, finished products on hand, and other sundries, was first called for at the census of 1890. No definite attempt was made, prior to the census of 1890, to secure a return of live capital invested.

Changes were made in the inquiries relating to employees and wages, in order to eliminate defects found to exist on the form of inquiry adopted in 1890. At the census of 1890 the average number of persons employed during the entire year was called for, and also the average number employed at stated weekly rates of pay, and the average number was computed for the actual time the establishments were reported as being in operation. At the census of 1900 the greatest and least numbers of employees were reported, and also the average number employed during each month of the year. The average number of wage-earners (men, women, and children) employed during the entire year was ascertained by using 12, the number of calendar months, as a divisor into the total of the average numbers reported for each month. This difference in the method of ascertaining the average number of wage-earners during the entire year may have resulted in a variation in the number, and should be considered in making comparisons.

At the census of 1890 the number and salaries of proprietors and firm members actively engaged in the business or in supervision were reported, combined with clerks and other officials. In cases where proprietors and firm members were reported without salaries, the amount that would ordinarily be paid for similar services was estimated. At the census of 1900 only the number of proprietors and firm members actively engaged in the industry or in supervision was ascertained, and no salaries were reported for this class. It is therefore impossible to compare the number and salaries of salaried officials of any character for the two censuses.

Furthermore, the schedules for 1890 included in the wage-earning class, overseers, foremen, and superintendents (not general superintendents or managers), while the census of 1900 separates from the wage-earning class such salaried employees as general superintendents, clerks, and salesmen. It is possible and probable that this change in

the form of the question has resulted in eliminating from the wage-earners, as reported by the present census, many high-salaried employees included in that group for the census of 1890.

The reports show a capital of \$77,476,420 invested in manufactures and mechanical industries in the 4,970 establishments reporting for the 2 states. This sum represents the value of land, buildings, machinery, tools, and implements, and the live capital utilized, but does not include the capital stock of any of the manufacturing corporations of these states. The value of the products is returned at \$124,045,920, to produce which involved an outlay of \$2,838,645 for salaries of officials, clerks, etc.; \$18,535,037 for wages; \$5,098,808 for miscellaneous expenses, including rent, taxes, etc.; and \$79,798,720 for materials used, mill supplies, freight, and fuel. It is not to be assumed, however, that the difference between the aggregate of these sums and the value of the products is, in any sense, indicative of the profits in the manufacture of the products during the census year. The census schedule takes no cognizance of the cost of selling manufactured articles, or of interest on capital invested, or of the mercantile losses incurred in the business, or of depreciation in plant. The value of the products given is the value as obtained or fixed at the shop or factory. This statement is necessary in order to avoid erroneous conclusions from the figures presented.

The value of products for the states, \$124,045,920, is the gross value, and not the net or true value. The difference between these two should be carefully noted. The gross value is found by adding the values of products in the separate establishments. But the finished product of one establishment is often the raw material for another. In such cases the value of the former reappears in the latter and thus the original cost of certain materials may be included several times in the gross value. The net or true value is found by subtracting from the gross value the value of all materials purchased in a partly manufactured form. In this way the duplications in the gross value are eliminated.

At the census of 1890 the schedule was so framed that it was impossible to find the net or true value. In the present census the schedule asked for the value of the materials in two classes, those purchased in the crude state and those purchased in the partly manufactured form. From the answers to these questions the net or true value of products may be computed. Thus, in these states, the gross value of products for 1900 was \$124,045,920. The value of materials purchased in a partly manufactured form was \$22,663,571. The difference between them, \$101,382,349, is the net or true value of products, and represents the increase in the value of raw materials resulting from the various processes of manufacture.

Very respectfully,


Chief Statistician for Manufactures.

COLORADO.

Colorado was organized as a territory in 1861 out of parts of Utah, New Mexico, Kansas, and Nebraska; and the Ninth Census (1870) was the first census in which the statistics for manufactures were published separately.

Table 1 shows the manufacturing and mechanical industries of the state as returned at the censuses of 1870 to 1900, inclusive, with the percentages of increase for each

decade. This table also presents the average number of wage-earners employed by manufacturing establishments, in comparison with the total population of the state, and the value of the land and buildings owned and reported by manufacturers as capital, in comparison with the assessed value of all real estate and improvements.

TABLE 1.—COMPARATIVE SUMMARY, 1870 TO 1900, WITH PER CENT OF INCREASE FOR EACH DECADE.

	DATE OF CENSUS.				PER CENT OF INCREASE.		
	1900	1890	1880	1870	1890 to 1900	1880 to 1890	1870 to 1880
Number of establishments	3,570	1,518	599	256	135.2	153.4	184.0
Capital	\$62,826,472	\$26,651,840	\$4,811,714	\$2,885,605	135.7	518.1	52.1
Salaried officials, clerks, etc., number	2,052	12,051	(2)	(2)	(2)	(2)	(2)
Salaries	\$2,272,480	\$2,418,329	(2)	(2)	45.8	(2)	(2)
Wage-earners, average number	24,725	15,016	5,074	876	64.7	195.9	479.2
Total wages	\$15,146,667	\$9,872,405	\$2,814,427	\$528,221	58.4	326.6	388.2
Wages	22,588	13,521	4,652	874	67.1	190.6	432.3
Men, 16 years and over	\$14,425,442	\$9,309,281	(2)	(2)	65.0	(2)	(2)
Women, 16 years and over	1,894	1,223	266	2	54.9	359.8	13,200.0
Wages	\$671,589	\$512,263	(2)	(2)	31.1	(2)	(2)
Children, under 16 years	243	272	156	(2)	410.7	74.4	(2)
Wages	\$49,686	\$50,861	(2)	(2)	42.3	(2)	(2)
Miscellaneous expenses	\$4,169,635	\$1,948,025	(2)	(2)	114.0	(2)	(2)
Cost of materials used	\$66,886,016	\$20,848,516	\$8,806,762	\$1,693,280	220.8	186.7	452.7
Value of products, including custom work and repairing	\$102,830,137	\$42,480,205	\$14,260,159	\$2,852,820	142.1	197.9	399.9
Total population	588,555	412,198	194,327	89,864	80.7	112.1	887.5
Wage-earners engaged in manufactures	24,725	15,016	5,074	876	64.7	195.9	479.2
Per cent of total population	4.6	3.6	2.6	2.2	(2)	(2)	(2)
Assessed value of real estate	\$172,800,636	\$155,388,090	\$35,604,197	\$8,840,811	11.2	336.4	802.7
Value of land and buildings invested in manufactures ^a	\$21,778,742	\$5,694,201	(2)	(2)	225.3	(2)	(2)
Per cent of assessed value	12.6	4.8	(2)	(2)	(2)	(2)	(2)

¹ Includes proprietors and firm members, with their salaries; number only reported in 1900. (See Table 7.)

² Not reported separately.

³ Less than one-tenth of 1 per cent.

⁴ Decrease.

⁵ Not reported.

⁶ Exclusive of 1,145 Indians and other persons on Indian reservations, which classes were not included at previous censuses.

⁷ From the biennial report of the auditor of Colorado, 1900.

⁸ Does not include the value of rented property.

Table 2 divides the industries of the state between the hand trades and the manufactures proper. This table also gives the statistics for penal institutions, and estab-

lishments with a product of less than \$500; these were not reported at previous censuses, and therefore are omitted from the other tables and their use confined to Table 2.

TABLE 2.—SUMMARY FOR ALL ESTABLISHMENTS.

CLASSES.	Number of establishments.	Capital.	Proprietors and firm members.	WAGE-EARNERS.		Miscellaneous expenses.	COST OF MATERIALS USED.				Value of products, including custom work and repairing.
				Average number.	Total wages.		Total.	Purchased in raw state.	Purchased in partially manufactured form.	Fuel, freight, etc.	
Total	3,865	\$62,937,851	3,974	24,792	\$15,150,767	\$4,194,858	\$66,917,828	\$14,354,396	\$18,666,091	\$3,896,836	\$102,917,750
Hand trades ¹	1,773	3,810,193	1,979	4,777	3,096,888	863,289	4,706,547	43,233	4,459,484	208,830	11,190,642
Penal institutions	3	1,850	(2)	23	(2)	(2)	3,495	(2)	3,495	(2)	8,125
Establishments with a product of less than \$500	232	110,529	307	44	4,100	25,223	27,812	1,229	26,544	89	79,488
All other establishments	1,792	59,515,279	1,688	19,948	12,049,779	3,306,346	62,179,409	44,309,934	14,176,568	3,692,937	91,689,495

¹ Includes bicycle and tricycle repairing, 127; blacksmithing and wheelwrighting, 346; boots and shoes, custom work and repairing, 224; carpentering, 174; clothing, men's, custom work and repairing, 219; clothing, women's, dressmaking, 75; dyeing and cleaning, 24; furniture, cabinetmaking, repairing, and upholstering, 35; lock and gun smithing, 19; masonry, brick and stone, 84; millinery, custom work, 108; painting, house, sign, etc., 100; paperhanging, 10; plastering and stucco work, 16; plumbing, and gas and steam fitting, 108; sewing machine repairing, 4; taxidermy, 11; typewriter repairing, 4; watch, clock, and jewelry repairing, 140.

In addition to the 3,865 active establishments in the state during the census year, with a capital of \$62,987,351, shown in Table 2, there were 13 idle establishments, with a capital of \$1,721,775. Of these establishments, 2, with a capital of \$15,450, were reported for the manufacture of brick and tile; 3, with a capital of \$17,900, for the manufacture of coke; 3, with a capital of \$108,550, for the manufacture of flouring and grist mill products; and 1, with a capital of \$1,575,000, for the manufacture of paper. The remaining idle capital, amounting to \$9,875, was invested in comparatively small establishments reported for various industries.

Of the 3,865 establishments of all classes, shown in Table 2, 2,070, or 53.6 per cent, were small shops included in the groups of "hand trades" and "establishments with a product of less than \$500." The value of the product for these establishments, consisting principally of the sums received for custom work and repairing, amounted to \$11,270,180, or only 11 per cent of the total products of the state.

Colorado is essentially a mining state, with stock raising and agriculture ranking next in importance. Only 4.6 per cent of the population is reported as wage-earners in manufacturing establishments. Table 1 indicates, however, that there was a steady increase in the manufacturing industries of the state during the thirty years ending with 1900. The total population of the state in 1870 was 39,864, and in 1900, 538,555, an increase of 498,691, or 1,251 per cent. The average number of wage-earners employed in manufacturing establishments has increased from 876 in 1870 to 24,725 in 1900, or 2,722.5 per cent, embracing in 1900 4.6 per cent of the entire population. The greatest number of wage-earners employed in manu-

factures at any one time during the year was 34,641, or 6.4 per cent of the total population, and this percentage is a more accurate indication of the proportion so employed.

The apparent rapid increase during the last decade is very largely due to the inclusion of the smelting and refining industry as a form of manufacturing in 1900. At the censuses of 1880 and 1890 this industry was treated as a branch of mining. In 1870, the report on manufactures included 15 establishments, with a product valued at \$769,324, engaged in milling quartz, an industry not included in these reports since that time. If, for purposes of comparison, the product of copper and lead smelting and refining be deducted from the total for 1900, the product for the state will amount to \$58,204,832, or an increase of 37 per cent during the last decade.

The situation of Colorado in the center of the states of the Rocky Mountain region has been favorable to the growth of its manufactures. The city of Denver is the great railroad and distributing center for these states, and this has materially assisted in the development of industries producing supplies to meet the demand of the district. In the case of all articles where freight charges are an important element of the cost, local manufacturers have been further favored as against their eastern competitors, by the distance of Colorado from the older manufacturing states of the country, and the absence of water communication. The state has also abundant fuel for use in manufactures, ranking ninth in the country in the production of coal in 1899.¹

Comparative statistics for the 8 leading industries in Colorado are presented in Table 3.

¹ Production of Coal in 1899, page 38. (Extract from the Annual Report of the Geological Survey, 1899-1900, Part VI.)

TABLE 3.—COMPARATIVE SUMMARY OF EIGHT LEADING INDUSTRIES.

INDUSTRIES.	Year.	Number of establishments.	Capital.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Average number.	Total wages.			
Total for selected industries for state	1900 1890	633 403	\$17,987,096 10,784,747	8,261 5,236	\$5,063,651 3,553,979	\$1,781,701 841,150	\$12,939,684 8,769,691	\$23,664,719 16,064,081
Increase, 1890 to 1900		230	7,202,349	3,005	1,449,672	940,551	3,569,993	7,600,638
Per cent of increase		57.1	66.8	57.2	40.8	111.8	40.7	47.3
Per cent of total of all industries in state	1900 1890	17.7 26.5	28.6 40.5	33.4 35.0	33.0 36.0	42.7 43.2	18.4 42.1	23.0 37.8
Cars and general shop construction and repairs by steam railroad companies.	1900 1890	29 10	1,681,800 1,551,811	2,687 1,866	1,676,500 1,023,899	38,863	1,278,239 891,030	3,141,602 1,965,696
Coke	1900 1890	9 7	928,874 594,363	406 217	226,454 161,665	38,446 1,360	527,558 468,183	1,213,561 673,479
Flouring and grist mill products	1900 1890	63 33	2,040,774 2,195,085	278 246	169,358 149,551	131,790 123,540	3,842,194 3,155,919	4,528,062 3,898,166
Foundry and machine shop products	1900 1890	77 31	2,853,181 1,823,691	1,823 751	1,125,432 588,021	294,925 81,193	1,647,102 705,030	3,986,915 1,792,619
Liquors, malt	1900 1890	14 11	5,652,204 1,917,050	323 236	256,764 214,407	335,518 252,021	375,893 555,149	2,042,833 1,601,138
Lumber and timber products	1900 1890	159 120	972,088 941,561	732 1,156	331,038 392,010	27,322 64,597	854,454 647,058	1,627,605 1,368,749
Printing and publishing	1900 1890	278 187	2,556,080 1,481,506	1,800 1,177	1,078,595 968,689	430,871 282,305	785,099 579,013	3,561,754 2,641,174
Slaughtering and meat packing, wholesale	1900 1890	7 4	1,232,075 310,150	212 77	139,510 55,824	43,965 29,640	3,029,085 1,825,249	2,562,357 2,128,030

The leading industries for which statistics are shown in Table 3, are only those for which comparable data could be obtained for 1890, and they represent 17.7 per cent of the total number of establishments, used 28.6 per cent of the total capital, gave employment to 33.4 per cent of all wage-earners, and paid 33 per cent of the total wages, and the value of their product formed 23 per cent of the total product. In all particulars the totals for these leading industries constituted a smaller per cent of the totals of the state in 1900 than in 1890. This is due to the inclusion of smelting and refining in 1900, and to the increase in the manufacture of iron and steel and in the less important industries. The smelting and refining of copper and lead was treated as a branch of mining in 1890, and comparative statistics are not available. This industry gave employment to 3,726 wage-earners in 1900, and was the most important in the state according to the value of its products, \$44,625,305. This product includes gold and silver, as well as copper and lead, and the value of the precious metals forms the greater part of the total value reported.

The 3 establishments engaged in the smelting of copper ore reported the fine copper contents of mattes as amounting to 21,212,797 pounds, valued at \$1,993,791. The product of silver amounted to 728,334 fine ounces, valued at \$428,493, and of gold to 71,396 fine ounces, valued at \$1,470,750. The smelting of lead was confined to argentiferous ores, and the lead contents of the base bullion amounted to 219,304,385 pounds, valued at \$8,613,296. The silver product of the lead smelters amounted to 24,464,621 fine ounces, valued at \$14,680,889, and the gold to 760,240 fine ounces, valued at \$15,194,872. The product of the refining and desilverizing of the hard or antimonial lead amounted to 1,402,948 pounds, valued at \$59,156, and of all other lead, including Doré bars, amounted to 42,723,944 pounds, valued at \$1,822,735. The contents of the precious metals contained in Doré bars mounted to 5,769,336 fine ounces of silver, valued at \$3,429,993, and of gold to 234,763 fine ounces, valued at \$4,852,376. "Dry ores" of the precious metals are now usually smelted in combination with lead ores, for it has been found that they can be treated more economically in this way than in any other. The abundant lead ores of the state, nearly one-third of the country's production in 1899,¹ are used for this purpose, but the state's production of ores of the precious metal is so great—surpassing that of any other state in the country²—that it has been necessary to bring in large quantities of lead ores from other mining states to assist in smelting ores of gold and silver, as well as to make use of the fuel of the state. Colorado has thus become the great smelting state of the country, the value of the product of its lead smelters and refineries constituting 23.2 per cent of the value of the product of the United States.

The manufacture of iron and steel stands next in im-

portance to the smelting of ores. There were only two establishments reported for the industry in 1890, and the statistics were included in the group of "All other industries;" therefore, comparative data can not be given. This industry gave employment to 1,414 wage-earners during 1900, and the finished products were valued at \$6,108,295. These products included 112,843 tons of pig iron, 129,133 tons of Bessemer steel ingots, 84,670 tons of steel rails, and 25,832 tons of iron and steel bars and rods. The importance of the iron and steel industry in Colorado is due largely to the abundant local supply of raw materials. The coal production of the state in 1899—4,776,224 short tons—exceeded that of any other state west of the Mississippi, with the exception of Iowa, while the production of iron ore during the same year, 307,557 long tons, was three times the combined production of all the other states west of the Mississippi with the exception of Minnesota.³ The further manipulation of iron and steel in the foundry and machine shops of the state constitutes an industry which gave employment to 1,823 wage-earners in 1900, and whose product was valued at \$3,986,915. This industry is affected very considerably by the extensive mining operations of the state, for a large part of the work in these machine shops is the manufacture of mining machinery. Many establishments make this a specialty, and their machines are used in mines in all parts of the United States and even in foreign countries. Allied also to the preceding industries is the construction and repair shop work of steam railroads. This industry, with 2,687 wage-earners and a product valued at \$3,141,602, reflects the great railroad interests of the state.

The manufacture of coke, made possible by the large coal production of the state, has been further stimulated by the demand for this product for smelting purposes. During the year 1899, 503,543 short tons of coke were manufactured, and the entire product was valued at \$1,213,561. The manufacture of malt liquors, with 323 wage-earners and a product valued at \$2,042,863, and the flour-milling industry, with 278 wage-earners and a product valued at \$4,528,062, have both been stimulated by the increasing production of cereals within the state. The wheat crop for 1900 exceeded 7,000,000 bushels, while the crop for 1890 was less than 3,000,000 bushels.⁴

The importance of the slaughtering and meat-packing industry, with 212 wage-earners and a product valued at \$3,562,357, reflects the position of Denver as the stock market for the great stock-raising region of the Rocky Mountains. Cattle are received from all the states of this region, and Colorado reported over 1,000,000 cattle of its own in 1899.⁵ In addition to these leading industries attention is called to 2 others, fruit canning and the manufacture of beet sugar, which are included only in Table 6. Fruit canning gave employment to 203 wage-earners in 1900, and had a product valued at \$343,394. The industry

¹ Production of Lead in 1899, page 9. (Extract from the Annual Report of the Geological Survey, 1899-1900, Part VI.)

² Production of Gold and Silver in 1899, page 127. (Extract from the Annual Report of the Geological Survey, 1899-1900, Part VI.)

³ The Production of Coal in 1899, page 38, and the Production of Iron Ore in 1899, page 8. (Extracts from the Annual Report of the Geological Survey, 1899-1900, Part VI.)

⁴ Year Book of the Department of Agriculture, 1900, page 707, and Abstract of the Eleventh Census, page 114.

⁵ Year Book of the Department of Agriculture, 1899, page 819.

first appears in census reports in 1900, and has been made possible by the increasing success of horticulture in the state as a result of the extensive irrigation of recent years. The manufacture of beet sugar was begun in Colorado in 1899, and although but one establishment was reported for the census year, other new establishments, with greater capacities, stood ready to use the beet crop of 1900 as soon as it was harvested.¹

¹ Seventh Biennial Report of the Bureau of Labor Statistics, Colorado, 1899-1900, page 383.

URBAN MANUFACTURES.

The statistics for Denver and Pueblo were published separately at the census of 1890, and Table 4 is a comparative summary, presenting the totals for each of the 2 cities, together with the per cent of increase during the decade, and also the per cent that the totals for these 2 cities formed of the total for the entire state at the two censuses.

TABLE 4.—COMPARATIVE SUMMARY, DENVER AND PUEBLO, 1890 AND 1900, WITH PER CENT OF INCREASE.

	Year.	Number of establishments.	Capital.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Average number.	Total wages.			
The State.....	1900	8,570	\$62,825,472	24,725	\$15,146,667	\$4,169,635	\$66,886,016	\$102,830,137
Per cent of increase.....	1890	1,518	26,651,840	15,016	9,872,405	1,948,025	20,843,516	42,480,205
		185.2	135.7	64.7	53.4	114.0	220.8	142.1
Denver.....	1900	1,474	30,883,046	10,926	6,824,003	2,409,785	24,572,199	41,368,698
Per cent of increase.....	1890	762	16,811,868	9,283	6,658,585	1,340,868	14,216,549	29,240,747
		93.4	83.7	17.7	2.6	79.7	72.8	41.5
Pueblo.....	1900	241	12,374,248	4,911	3,044,280	577,501	22,589,669	30,795,481
Per cent of increase.....	1890	102	1,278,792	937	629,769	92,792	999,066	2,874,631
		183.3	897.6	424.1	333.4	522.4	2,159.0	1,196.0
Total for the 2 cities.....	1900	1,715	43,257,294	15,837	9,868,283	3,987,286	47,161,868	72,164,179
Per cent of increase.....	1890	864	18,080,650	10,220	7,283,344	1,433,690	15,216,615	31,615,878
		98.5	139.1	55.0	35.5	178.1	209.9	128.3
Per cent of 2 cities to total for state.....	1900	48.0	68.9	64.1	65.2	95.6	70.5	70.2
	1890	56.9	87.9	68.1	78.8	79.6	73.0	74.4

As shown in Table 4 there has been an increase during the last decade in the manufactures of the 2 principal cities of the state. In certain particulars, however, the increase shown for the city of Denver is only apparent, due to the inclusion of the smelting and refining of ores in 1900, which industries were not included in the manufacturing statistics at the census of 1890. Exclusive of these industries, the value of the products for 1900, as compared with 1890, shows a decrease for Denver of 5.5 per cent, and for the entire state an increase of 37 per cent. Mr. Frank S. Tesch, the chief special agent for Denver, states in explanation of the decrease in Denver, as compared with the increase in the entire state, that 1890 was a year of exceptional prosperity in that city; rents and the value of real estate were high, and there was great activity in building operations. Business depression in subsequent years of the decade seriously affected manufacturing industries, especially the building trades.

Table 4 shows a large increase in the manufacturing industries of the city of Pueblo. This is, however, quite largely due to the inclusion of the lead smelting and refining industry in 1900. Exclusive of this industry, the value of the products for 1900 amounted to \$10,965,932 as compared with \$2,374,631 in 1890, an increase of 361.8 per cent during the decade. This increase was chiefly in the manufacture of iron and steel.

There were 1,474 establishments in Denver in 1900, or 41.3 per cent of the entire number located within the state. These establishments had a combined capital amounting to \$30,883,046, or 49.2 per cent of all the capital employed in the state. Of the wage-earners 10,926, or 44.2 per cent of all in the state were employed in Denver. The total amount of wages paid in the city amounted to \$6,824,003, or 45.1 per cent of all wages paid in the state. The value of products, including custom work and repairing, during 1900 was \$41,368,698, or 40.2 per cent of the total products of the state, while the combined value of the products of Denver and Pueblo amounted to \$72,164,179, or 70.2 per cent of the total products of the state.

Table 5 shows the totals for the manufacturing and mechanical industries of the 8 cities withdrawn from the enumerators, and places them in comparison with the totals for the entire state and the state exclusive of these cities. Of the 3,570 establishments in the state, 2,325, or 65.1 per cent, are located in these 8 cities. The capital reported for these establishments is \$49,443,404, or 78.7 per cent of that of the entire state. They furnished employment to 19,113 wage-earners, or 77.3 per cent of the total number, paid \$12,037,500 in wages, or 79.5 per cent of the total amount, and the value of their products, \$83,667,967, formed 81.4 per cent of the total for the state.

TABLE 5.—URBAN MANUFACTURES.

	Number of establishments.	Capital.	Proprietors and firm members.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Average number.	Total wages.			
Total for state.....	3,570	\$62,825,472	3,667	24,725	\$15,146,667	\$4,169,635	\$66,856,016	\$102,830,137
Total for urban manufactures.....	2,325	49,443,404	2,344	19,113	12,037,500	3,512,056	54,528,510	83,667,967
Aspen.....	53	104,675	50	63	41,933	12,663	87,084	203,447
Colorado Springs.....	189	1,449,189	180	822	489,337	292,069	708,627	1,843,642
Cripple Creek.....	127	342,256	137	409	336,691	64,471	714,018	1,417,646
Denver.....	1,474	30,883,016	1,461	10,826	6,824,003	2,408,785	24,572,199	41,368,698
Leadville.....	115	3,632,766	119	1,878	854,695	94,829	5,061,973	3,436,680
Pueblo.....	211	12,374,248	217	4,211	3,044,280	577,501	22,689,099	33,795,481
Trinidad.....	87	481,451	101	329	202,422	79,361	238,212	679,649
Victor.....	69	178,773	79	281	244,833	70,307	460,833	922,521
Total for state, exclusive of urban manufactures.....	1,245	13,382,068	1,323	5,612	3,109,167	657,579	12,357,497	19,162,170
Per cent of urban manufactures to total for state.....	65.1	78.7	63.9	77.3	79.5	84.2	81.5	81.4

Table 6 shows the totals for the state by counties.

Table 7 shows the totals for the state by specified industries.

Table 8 shows the totals for the cities of Denver and Pueblo by specified industries.

Table 9 shows the totals for all industries in the cities withdrawn from the enumerators, exclusive of those shown in Table 8.

TABLE 6.—MANUFACTURES

[No manufactures reported

1	COUNTIES AND MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
			Total.	Land.	Buildings.	Machinery, tools, and imple-ments.	Cash and sundries.		Number.	Salaries.	Total.	
											Average number.	Wages.
	The State	3,570	\$62,825,472	\$5,796,070	\$15,977,672	\$21,494,888	\$19,556,842	3,667	2,052	\$2,272,480	24,725	\$15,146,667
2	Arapahoe	1,518	83,656,944	3,185,015	8,541,450	11,079,414	10,751,085	1,498	1,186	1,829,525	11,694	7,177,659
3	Archuleta	5	19,985	355	1,700	16,550	1,400	4	1	225	17	7,537
4	Bent	16	37,250	2,200	6,900	10,175	11,925	19	2	5,450	18	15,136
5	Boulder	137	982,190	147,562	185,830	256,735	392,038	143	34	85,476	448	218,609
6	Chaffee	19	318,726	31,200	122,440	67,371	67,715	24	21	27,829	451	265,851
7	Clear Creek	42	99,880	20,110	13,540	26,500	30,730	50	5	12,808	80	20,022
8	Conceos	18	150,087	6,675	37,100	31,675	24,587	13	9	5,450	96	57,338
9	Costilla	5	84,566	1,100	12,150	12,300	59,016	2	2	930	15	9,028
10	Custer	16	32,945	920	11,885	19,375	9,215	21	2		13	6,044
11	Delta	28	63,186	4,310	11,975	22,010	44,891	31			28	15,040
12	Dolores	4	18,050	1,300	2,650	12,290	2,500	6	1	320	12	2,555
13	Douglas	16	47,700	20,625	6,875	12,050	7,850	17	4	2,774	45	18,475
14	Elgin	8	28,190	4,069	6,856	7,130	11,150	8	2	2,309	47	27,876
15	Elbert	9	12,880	1,840	6,950	3,880	11,720	9	1	700	6	1,970
16	El Paso	195	1,920,771	398,111	294,888	689,745	551,027	214	126	94,838	1,152	680,877
17	Fremont	57	1,336,900	480,663	168,580	390,343	297,364	62	27	44,168	368	190,538
18	Garfield	84	267,227	6,775	37,187	161,955	62,310	40	5	4,953	105	60,825
19	Gilpin	47	148,042	14,300	16,300	47,917	68,805	57	1	1,400	121	80,841
20	Grand	4	5,275	210	315	2,300	1,950	4			1	125
21	Gunnison	27	152,330	5,210	9,240	107,204	80,676	28	2	2,028	95	49,246
22	Hinsdale	12	24,875	2,100	4,750	9,225	8,300	12			12	6,830
23	Huerfano	20	40,930	3,775	11,940	17,685	7,580	23			14	6,565
24	Jefferson	80	577,250	99,760	155,222	179,675	142,595	22	13	17,767	124	78,630
25	Kit Carson	8	15,195	3,125	7,953	3,325	595	2	1	600	8	1,100
26	Lake	110	4,498,000	186,176	1,236,353	1,942,417	1,183,054	121	64	104,421	1,684	1,026,948
27	La Plata	42	1,568,550	78,382	433,232	902,279	394,657	37	29	42,132	346	224,939
28	Larimer	86	395,932	36,202	85,366	127,180	147,184	98	22	6,020	106	52,357
29	Las Animas	106	1,197,692	62,771	176,440	359,392	299,089	116	42	45,698	690	386,851
30	Logan	11	17,196	2,253	3,950	5,075	3,915	11			7	8,355
31	Mesa	52	620,283	35,900	148,050	381,988	54,345	64	15	20,295	255	142,702
32	Mineral	28	40,507	2,150	7,110	13,457	17,790	25	1	1,200	26	18,380
33	Montezuma	8	97,715	14,175	13,750	42,405	27,385	8	5	4,700	65	37,900
34	Montrose	6	36,794	6,440	1,850	10,335	18,669	6	6	600	28	11,775
35	Morgan	21	16,697	1,135	4,825	5,625	5,562	25	1	400	17	6,496
36	Otero	43	290,460	24,750	93,700	91,457	81,553	42	14	12,635	356	189,672
37	Ouray	10	44,425	950	4,200	3,825	35,450	8	2	2,100	36	29,557
38	Park	22	120,816	40,472	9,115	36,225	35,004	27	7	5,564	93	46,980
39	Phillips	5	15,394	500	10,375	3,080	1,439	4	1	1,200	8	4,855
40	Pitkin	59	138,285	11,325	23,390	45,875	55,195	56	4	2,878	94	55,222
41	Provers	22	132,896	4,550	16,740	26,270	85,386	22	2	2,100	36	13,945
42	Pueblo	245	12,376,228	754,007	3,807,175	8,878,485	3,935,561	221	323	370,438	4,011	3,046,752
43	Rio Blanco	8	29,438	2,000	4,300	13,088	10,050	8	1	400	9	4,425
44	Rio Grande	17	90,054	3,179	13,800	34,255	33,529	18	3	3,400	69	85,136
45	Routt	20	40,780	3,396	10,335	18,270	3,785	28	2	406	26	13,837
46	Saguache	5	14,150	1,600	3,850	7,450	1,250	6			8	2,400
47	San Juan	9	51,930	1,750	11,800	12,175	26,205	11			24	24,472
48	San Miguel	32	174,785	30,387	22,378	72,570	42,950	34	6	5,200	68	49,428
49	Sedgwick	9	7,875	462	1,600	3,878	2,035	8			3	1,615
50	Summit	12	24,334	675	3,150	10,220	10,289	12	1	72	9	5,805
51	Teller	216	595,085	71,095	70,768	151,573	301,659	248	47	42,756	790	635,697
52	Washington	5	20,022	750	9,500	2,820	6,952	4	1	1,200	8	3,975
53	Weld	86	293,143	19,700	68,335	109,585	95,520	90	12	11,190	124	62,172
54	Yuma	4	11,471	435	2,100	7,305	1,631	4			2	827
55	All other counties ¹	6	10,160	1,400	3,600	2,510	2,350	3	2	1,395	22	12,959

¹ Includes establishments distributed as follows: Cheyenne, 2; Kiowa, 2; Lincoln, 2.

TABLE 7.—MANUFACTURES BY

1	All Industries	3,570	\$62,825,472	\$5,796,070	\$15,977,672	\$21,494,888	\$19,556,842	3,667	2,052	\$2,272,480	24,725	\$15,146,667
2	Awnings, tents, and sails	7	102,045			12,461	89,584	8	5	6,040	62	30,983
3	Bicycle and tricycle repairing	127	115,342	1,675	4,250	54,629	54,788	147	8	5,850	97	63,546
4	Blacksmithing and wheelwrighting	346	487,302	111,257	108,578	77,765	139,702	402	2	1,465	303	213,449
5	Bookbinding and blank book making	5	34,350			13,900	20,450	4	7	3,542	23	11,951
6	Boots and shoes, custom work and repairing.	224	90,819	10,290	19,650	24,267	36,112	224			78	43,835
7	Bottling	16	257,411	19,250	126,816	21,223	90,122	12	13	14,990	63	35,100
8	Brass castings and brass finishing	4	31,150	10,030	9,150	7,500	4,500	3	1	1,500	21	12,780
9	Bread and other bakery products	132	551,897	54,990	202,010	214,100	180,737	135	66	47,709	420	286,423
10	Brick and tile	65	525,725	151,225	81,325	139,930	156,245	70	18	18,450	488	237,105
11	Brooms and brushes	5	21,100			10,400	13,700	3	11	3,000	47	20,510

BY COUNTIES: 1900.

from Baca county.]

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
22,585	\$14,425,442	1,894	\$671,539	243	\$49,686	\$4,169,635	\$701,212	\$292,330	\$2,659,468	\$516,025	\$66,886,016	\$64,048,306	\$2,842,710	\$102,880,137	1
10,155	6,625,121	1,407	521,861	182	86,677	2,472,268	439,004	151,812	1,576,984	304,998	27,495,836	26,599,113	890,733	44,986,905	2
17	7,567					615		393	182		20,240	20,010	230	40,248	3
18	12,051	2	485			2,890	560	654	1,073		39,822	38,516	736	76,890	4
358	192,896	60	15,358	25	5,915	76,437	14,149	8,810	53,410	68	798,029	774,919	28,110	1,864,894	5
449	267,551	2	800			11,626	3,002	2,395	6,010	678	817,507	299,522	17,935	634,798	6
28	19,372	2	650			8,170	5,024	1,672	1,474		80,183	37,103	2,080	106,447	7
95	57,088	1	300			17,704	888	974	342		85,493	87,898	1,602	171,147	8
15	9,028					10,855	1,768	1,768	9,109		149,479	146,334	3,145	191,186	9
11	5,669	2	375			2,017	168	310	1,339		14,585	14,336	499	85,497	10
24	14,240	4	800			4,562	1,379	1,038	2,175		60,189	57,850	2,289	112,117	11
12	2,555					265		265			12,265	12,265		22,600	12
48	17,985	2	490			2,265	404	166	1,579	86	89,110	88,562	548	95,968	13
46	27,070	1	300			781	126	228	388		15,984	15,707	217	53,494	14
5	1,720	1	250			846	108	165	133		28,008	27,419	589	40,088	15
1,075	658,824	59	19,003	18	3,050	238,858	42,955	13,107	87,012	64,864	957,646	928,769	33,877	2,278,789	16
343	194,124	24	5,279	1	135	39,827	8,524	12,945	18,358		709,894	659,880	50,004	1,156,186	17
102	60,375	3	450			12,968	2,548	9,788	632		139,689	137,133	2,556	357,778	18
117	79,191	4	1,650			14,010	5,802	1,452	5,836	920	114,292	110,215	4,077	293,167	19
1	125					171	93	31	50		981	896	85	2,950	20
90	48,284	4	650	1	912	7,677	1,240	638	5,829		120,436	119,697	739	283,298	21
10	6,010	2	790			1,608	571	224	713		12,047	11,832	195	80,242	22
18	6,325	1	240			2,411	604	785	1,072	100	44,803	44,578	215	78,415	23
116	76,875	3	755	5	1,000	124,542	1,360	4,901	118,581		137,361	121,887	15,117	455,162	24
3	1,100					202		84	118		16,828	15,825	503	21,704	25
1,560	1,016,958	20	10,030	4	860	99,831	23,200	9,680	66,392	550	6,378,031	5,888,095	480,936	8,016,270	26
337	221,974	7	2,700	2	265	55,301	30,924	6,450	37,918		2,084,046	1,981,078	52,968	2,729,428	27
95	50,310	7	1,677	4	370	27,848	4,669	3,647	16,902	2,725	490,536	481,618	8,618	671,709	28
669	381,093	18	4,806	3	452	108,885	11,719	5,090	85,226	6,241	684,011	628,506	5,408	1,628,821	29
6	2,966	1	450			773	344	104	324		5,719	5,454	265	16,967	30
237	189,587	16	2,850	2	205	30,134	3,899	2,126	18,427	5,682	255,890	248,257	7,623	433,562	31
22	18,082			4	298	1,890	714	526	590		23,685	22,933	752	32,938	32
59	35,300	6	2,600			4,173	200	1,179	2,794		148,130	147,155	1,085	59,768	33
22	11,425			1	350	7,696	4,000	285	3,405		67,830	65,625	1,775	232,555	34
17	6,496					1,707	823	184	700		19,182	17,777	1,408	162,028	35
938	186,486	18	2,836	5	400	22,749	3,187	3,817	15,435	830	326,612	313,429	13,188	38,748	36
35	29,317	1	240			3,532	1,811	716	1,105		33,194	31,483	1,711	82,676	37
92	45,680	1	300			2,509	270	783	1,147	400	57,349	55,067	2,232	151,686	38
8	4,855					478	60	269	149		4,790	4,518	272	12,699	39
80	50,084	14	5,138			15,345	5,848	2,169	7,825		107,932	98,587	9,345	261,695	40
31	12,651	5	1,284			4,823	860	759	3,308	205	158,461	150,897	2,564	188,384	41
4,766	3,000,628	127	41,597	28	4,527	577,560	46,480	34,251	483,966	65,863	22,590,366	21,450,070	1,141,326	30,805,781	42
9	4,425					1,371	810	460	601		18,864	18,458	411	35,482	43
68	34,936	1	200			7,763	358	1,768	5,368	331	168,446	165,100	3,337	247,215	44
26	13,897					912	48	353	511		24,130	23,784	446	55,780	45
8	2,400					214		114	100		10,870	10,870		18,510	46
28	24,312			1	160	5,352	1,230	471	3,651		44,589	43,854	735	80,583	47
67	49,178	1	250			11,345	5,230	1,785	4,303		68,115	65,979	2,136	174,845	48
3	1,646					604	271	223	107		16,450	16,970	480	22,734	49
8	4,705	1	600			517	287	200	30		12,315	11,965	350	32,423	50
736	616,433	60	18,404	5	860	133,354	88,431	5,055	31,485	62,480	1,288,266	1,267,816	23,440	2,556,497	51
7	8,826	1	150			580	84	277	219		10,167	9,976	191	17,883	52
107	56,951	15	4,331	2	290	29,104	8,317	3,154	17,533	100	508,095	490,876	9,819	738,964	53
2	827					325		137	185		4,198	4,198	80	7,077	54
22	12,959					351	49	89	213		6,707	5,793	914	23,522	55

SPECIFIED INDUSTRIES: 1900.

22,585	\$14,425,442	1,894	\$671,539	243	\$49,686	\$4,169,635	\$701,212	\$292,330	\$2,659,468	\$516,025	\$66,886,016	\$64,048,306	\$2,842,710	\$102,880,137	1
17	13,794	45	17,189			10,061	4,730	382	4,949		163,642	162,942	700	233,697	2
93	54,036					34,720	25,411	938	8,361		125,694	122,118	3,576	321,685	3
300	212,957	3	492			38,834	21,798	4,952	11,620	486	297,477	277,700	19,717	939,877	4
9	5,884	11	4,567			2,030	1,430	63	567		17,318	17,020	295	43,160	5
78	43,835					26,548	21,519	872	3,752		91,957	88,982	2,975	282,081	6
61	34,590			2	510	20,191	1,614	2,347	16,890		161,342	156,222	1,420	292,862	7
20	12,924			1	156	11,681	864	214	603		41,867	38,843	1,464	70,827	8
806	199,121	114	36,974	1	328	94,409	31,566	5,325	54,518		865,100	837,329	27,771	1,606,979	9
435	236,310			3	795	36,838	12,332	2,958	19,328	1,620	86,167	83,470	67,727	487,323	10
46	20,010	1	400	1	100	2,629	1,299	210	1,120		30,055	29,140	643	62,140	11

TABLE 7.—MANUFACTURES BY

	MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
			Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
											Average number.	Wages.
12	Carpentering	171	\$487,499	\$32,824	\$37,425	\$68,564	\$348,686	212	6	\$2,790	968	\$694,278
13	Carpets, rag	7	3,039	200	100	1,650	1,089	7	7	1,440	13	5,736
14	Carriages and wagons	48	319,121	62,550	62,600	37,890	156,081	58	11	10,960	191	132,625
15	Cars and general shop construction and repairs by steam railroad companies.	29	1,681,860	277,550	576,572	481,007	346,731	187	187	148,040	2,687	1,676,500
16	Cheese, butter, and condensed milk, factory product.	38	203,947	12,092	61,625	72,078	58,152	35	18	11,415	80	40,323
17	China decorating	3	2,250			700	1,550	2	2	1,440	4	1,378
18	Clothing, men's, custom work and repairing.	219	374,055	9,300	10,400	29,476	324,909	235	19	18,705	678	416,253
19	Clothing, women's, dressmaking	75	659,898	353,880	154,065	28,987	122,366	79	13	27,500	428	171,441
20	Colce	9	928,874	27,700	95,325	763,382	42,467	19	19	26,779	406	226,454
21	Confectionery	43	822,202	18,500	17,488	85,234	201,080	45	33	50,698	211	91,047
22	Copper, smelting and refining	3	2,308,309	99,998	628,885	429,238	1,155,188	30	30	59,765	410	315,958
23	Corsets	3	1,854			704	1,150	2	2	1,010	1	350
24	Dyeing and cleaning	24	10,595		200	7,400	2,995	31	3	6,000	21	11,934
25	Electrical apparatus and supplies	4	77,000			50,000	27,000	3	6	6,000	84	41,720
26	Electrical construction and repairs	9	28,966			5,538	23,428	11	5	4,480	23	16,837
27	Electroplating	4	4,400	200	500	2,900	800	4	4	1,300	8	3,600
28	Flavoring extracts	3	7,775	1,000	3,000	400	3,375	4	3	1,300	4	1,470
29	Flouring and grist mill products	60	2,040,774	193,262	436,966	618,550	791,996	23	92	78,445	278	169,353
30	Food preparations	11	31,205	10,300	7,250	7,405	6,250	16	16	7,405	79	30,211
31	Foundry and machine shop products	77	2,353,181	243,763	456,467	1,021,919	1,131,032	56	120	150,411	1,823	1,125,432
32	Fruits and vegetables, canning and preserving.	7	277,325	28,500	79,500	62,700	106,625	2	18	23,700	206	62,561
33	Fur goods	6	35,275			1,225	34,050	6	1	200	31	18,179
34	Furniture, cabinetmaking, repairing, and upholstering.	35	49,019	1,800	700	9,219	37,300	34	7	7,670	91	50,249
35	Furniture, factory product	4	77,350	3,000	5,150	6,300	62,900	2	7	7,500	51	33,542
36	Gas, illuminating and heating	5	1,773,308	206,000	233,000	1,217,366	116,942	28	28	27,048	109	54,051
37	Glass, cutting, staining, and ornamenting.	5	26,925			5,100	21,825	3	3	1,145	20	8,900
38	Hairwork	3	953			103	850	3	3		3	1,250
39	Ice, artificial	6	664,360	60,721	108,945	465,060	29,614	6	18	21,235	93	53,517
40	Iron and steel	3	2,903,136	69,651	1,072,683	926,518	854,384	92	92	93,500	1,414	710,742
41	Jewelry	11	36,068			7,040	29,028	9	4	3,915	36	25,315
42	Lead, smelting and refining	8	22,569,715	1,057,264	7,064,040	8,752,414	5,695,997	137	137	288,119	3,316	2,390,883
43	Lime and cement	8	61,855	31,625	9,780	16,675	775	4	4	4,700	56	28,755
44	Liquors, malt	14	5,682,201	361,700	2,246,102	1,622,500	1,451,902	9	39	78,121	823	256,764
45	Lock and gun smithing	19	17,025	650	1,500	7,875	7,000	26	14		14	8,488
46	Looking-glass and picture frames	14	22,370			3,270	19,100	12	5	2,000	29	18,290
47	Lumber and timber products	159	972,098	184,136	62,890	377,142	348,480	201	45	33,062	732	331,033
48	Lumber, planing mill products, including sash, doors, and blinds.	32	843,075	234,150	117,375	139,750	802,400	28	44	41,410	433	324,018
49	Marble and stone work	37	395,675	195,500	30,540	47,585	122,100	46	11	12,491	399	270,189
50	Masonry, brick and stone	34	91,150	2,625	4,620	29,230	54,625	42	12	12,680	723	527,186
51	Mattresses and spring beds	8	80,855	5,034	11,000	12,432	32,369	7	8	7,570	70	36,469
52	Millinery, custom work	108	175,341	4,350	11,265	11,564	148,162	120	16	10,998	214	86,346
53	Mineral and soda waters	39	557,038	274,300	126,600	95,980	60,208	28	19	21,753	96	45,371
54	Models and patterns	5	5,900			3,150	2,750	6	6		14	13,543
55	Monuments and tombstones	17	52,700	13,000	4,080	9,250	26,400	20	2	2,075	20	27,001
56	Optical goods	8	13,150			5,150	8,000	5	1	600	20	11,570
57	Painting, house, sign, etc	100	212,502	6,365	9,085	30,777	166,275	112	36	27,244	483	329,679
58	Paper hanging	10	25,400	1,200	500	2,125	21,575	9	6	1,760	52	30,221
59	Patent medicines and compounds	6	36,048			5,586	30,460	9	22	33,900	32	16,160
60	Paving and paving materials	5	12,900	2,550	1,125	4,575	4,650	4	2	1,920	35	25,948
61	Photography	81	116,005	2,910	9,615	54,725	48,755	89	8	4,706	101	57,673
62	Pickles, preserves, and sauces	7	35,900	3,200	9,800	9,650	13,250	8	9	5,100	32	19,660
63	Plastering and stuccowork	16	7,805	80	20	1,940	5,815	22	7	1,760	45	34,355
64	Plumbing, and gas and steam fitting	108	337,741	12,700	21,550	56,709	246,732	127	28	23,956	443	332,419
65	Pottery, terra cotta, and fire-clay products.	10	855,985	169,559	203,951	130,605	351,870	7	42	59,612	374	215,844
66	Printing and publishing, book and job.	66	314,593	100,000	98,500	323,356	292,737	70	72	77,040	497	308,213
67	Printing and publishing, newspapers and periodicals.	212	1,751,437	51,155	98,070	1,009,797	597,415	186	286	262,974	1,303	770,382
68	Roofing and roofing materials	15	59,020	15,425	9,375	15,820	18,400	14	11	6,760	69	31,707
69	Saddlery and harness	89	372,509	21,935	35,575	36,394	278,605	98	81	25,357	192	121,808
70	Sewing machine repairing	4	875	100	100	325	350	2	4		3	860
71	Shirts	5	15,600			2,550	13,050	4	3	2,412	51	19,284
72	Slaughtering and meat packing, wholesale.	7	1,262,075	149,800	494,000	83,000	535,275	4	37	51,586	212	130,510
73	Slaughtering, wholesale, not including meat packing.	7	118,443	13,000	15,700	21,000	68,743	3	11	9,360	49	31,234
74	Soap and candles	3	205,154	20,000	40,500	81,179	63,475	2	10	16,674	50	25,762
75	Taxidermy	11	19,080	500	1,800	1,105	15,675	16	9		9	2,800
76	Thsmithing, coppersmithing, and sheet-iron working.	106	368,900	22,070	51,775	82,055	213,000	104	22	19,852	266	198,210

SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
907	\$694,158			1	\$125	\$397,815	\$13,349	\$2,298	\$16,685	\$364,988	\$1,406,884	\$1,404,982	\$1,902	\$2,976,201	12
11	5,270	2	\$166			1,049	692	27	330		2,565	2,450	115	12,044	13
187	131,685	1	240	3	700	19,917	8,599	3,408	6,960	950	148,606	143,438	5,168	419,304	14
2,687	1,676,600					38,863	21,075	13,772	3,468	548	1,278,299	1,242,409	35,890	3,141,602	15
76	89,148	4	1,180			13,912	2,194	1,267	10,183	318	471,008	463,985	7,018	618,231	16
1	960	2	318	1	100	1,348	1,026	5	317		8,193	2,776	417	11,086	17
564	375,677	105	40,145	4	531	109,942	70,440	2,672	21,994	14,836	501,686	494,278	7,408	1,352,104	18
37	21,250	389	149,996	2	195	19,710	11,798	1,689	6,223		171,772	169,958	1,814	514,404	19
406	226,454					38,446		628	37,813		527,658	523,708	3,850	1,213,561	20
99	60,136	108	30,336	4	575	72,518	26,352	2,578	43,588		315,761	309,331	5,880	628,759	21
410	315,958					11,547		6,878	3,991	678	3,385,113	3,161,492	223,621	3,893,034	22
14	8,854	7	3,080			1,026	876	10	140		2,002	2,002		5,620	23
56	30,120	27	11,200	1	400	7,164	5,845	95	1,234		7,196	5,908	1,285	57,002	24
22	16,603			1	234	6,624	4,005	200	2,419		51,608	49,782	1,826	121,000	25
8	3,600					809	650	21	138		3,714	2,898	816	11,360	27
2	1,270	2	200			784	125	27	582		7,730	7,673	57	14,200	28
277	168,608	1	750			131,790	7,362	24,257	100,173		3,842,194	3,794,565	47,629	4,528,062	29
73	29,201	6	1,010			8,349	1,018	358	1,973		33,191	31,587	1,604	84,381	30
1,817	1,123,482	3	1,470	3	480	234,926	21,944	13,538	195,894	3,550	1,647,102	1,554,039	93,063	3,966,915	31
66	37,855	116	19,456	24	5,250	14,698	530	1,694	12,374		223,454	219,573	3,881	343,394	32
8	6,050	23	7,129			5,910	3,590	113	2,207		34,881	34,656	225	68,364	33
89	49,329	2	920			10,061	7,859	340	1,812	50	59,823	58,795	1,023	168,680	34
50	33,117	1	425			9,537	2,660	432	5,845	600	89,946	89,330	616	170,055	35
109	54,051					100,136		27,469	72,667		122,339	105,798	17,041	523,497	36
20	8,900					2,149	1,595	34	520		15,893	15,407	491	37,100	37
98	53,517	3	1,250			2,199	1,736	13	450		5,375	5,300	75	12,250	38
1,999	708,322			15	2,420	12,611	150	4,308	8,153		31,446	7,092	23,754	204,029	39
36	25,315					262,823	6,712	8,438	254,385		3,901,345	3,870,154	531,191	6,108,295	40
3,316	2,390,383					6,723	4,180	402	1,830	300	34,161	33,207	954	94,502	41
56	28,755					154,001		82,269	121,732		33,996,975	32,586,224	1,410,751	40,732,271	42
309	253,114			14	3,650	757		473	281		21,430	6,250	15,180	80,485	43
13	8,336			1	150	835,518		30,678	804,526	314	375,893	337,528	38,365	2,042,363	44
27	17,890	2	400			4,694	3,642	219	833		8,461	7,499	962	34,977	45
720	326,628					5,311	3,637	284	1,390		62,482	62,306	176	107,468	46
433	324,015	11	4,230	1	180	27,322	6,891	8,725	11,306	400	854,454	854,454		1,627,605	47
399	270,189					42,133	4,238	7,436	14,799	15,600	531,193	522,205	8,993	1,065,970	48
723	527,186					9,707	2,533	1,592	5,282		208,493	205,458	3,040	653,009	49
48	27,133	22	9,336			85,047	2,999	642	18,571	12,835	647,450	643,861	3,589	1,355,647	50
7	3,000			1	312	5,882	1,202	529	4,161		96,324	94,576	2,248	161,391	51
89	44,487	206	83,034	1		48,126	35,775	2,172	10,179		287,197	285,301	1,896	558,718	52
14	13,543	2	562	5	822	15,386	4,663	2,341	8,332		136,316	133,332	2,984	344,413	53
29	27,001					1,233	815	38	380		3,571	2,961	610	27,730	54
15	10,400					3,900	1,208	497	1,786	409	35,640	35,088	552	101,520	55
476	323,375	4	1,020	1	150	9,233	4,570	170	4,543		19,691	19,292	399	60,300	56
51	30,013			6	854	38,412	21,086	2,052	15,274		276,703	275,465	1,238	854,061	57
17	9,560			1	208	4,194	2,926	202	1,066		25,268	25,187	81	79,095	58
35	25,943	15	6,600			19,509	3,378	254	15,877		50,575	50,136	439	124,348	59
71	45,956	30	11,622			1,459	72	112	1,275		36,889	36,579	310	81,905	60
19	10,680					37,382	22,396	1,397	13,030		88,591	86,857	1,734	304,331	61
45	34,355	13	2,980			2,522	670	227	1,625		27,211	25,636	1,575	64,700	62
440	331,854			3	565	1,696	456		616	624	29,419	29,195	224	90,147	63
371	214,994	1	350	2	500	46,302	22,117	2,478	19,112	2,595	678,235	674,416	3,819	1,252,030	64
408	270,305	73	34,316	16	3,092	23,319	720	3,713	18,886		160,352	126,699	34,153	574,060	65
1,168	730,362					107,272	23,679	5,837	51,321	26,435	277,200	266,335	10,365	1,036,316	66
69	31,707					823,599	53,555	10,475	196,714	62,855	507,899	482,335	25,564	2,525,488	67
188	121,028					7,268	1,628	375	5,265		94,837	93,272	1,615	179,295	68
3	860	2	515	2	265	34,940	13,278	3,353	13,399		338,156	335,425	2,731	647,533	69
5	3,900	46	15,364			327	244	15	68		686	675	11	2,920	70
210	139,010					2,215	1,156	109	950		39,370	39,710	160	73,500	71
49	31,234	2	500			43,965	1,515	5,656	36,704		3,029,085	3,013,098	15,987	3,562,357	72
45	24,450					12,419	2,600	1,269	8,550		692,525	690,124	2,401	731,626	73
6	2,200	5	1,312			14,811	1,386	1,305	12,120		170,087	168,004	2,088	241,544	74
256	194,620	3	600			2,516	1,437	170	909		7,090	6,885	205	27,186	75
		8	3,200	2	390	48,758	22,578	3,729	19,166	3,300	435,369	430,006	5,363	887,144	76

TABLE 7.—MANUFACTURES BY

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
77 Tobacco, cigars and cigarettes.....	80	\$199,656	\$27,550	\$27,400	\$9,465	\$135,241	97	23	\$19,980	337	\$223,316
78 Trunks and valises.....	6	19,003	500	1,000	250	17,253	4	1	1,500	23	18,888
79 Typewriter repairing.....	4	1,185			225	960	2	2	300	3	1,836
80 Watch, clock, and jewelry repairing.....	140	148,030	14,248	7,486	51,891	74,410	137	10	8,600	129	87,715
81 Wirework, including wire rope and cable.....	3	49,210			21,160	28,050	1	8	7,600	31	18,500
82 All other industries ¹	103	3,828,903	729,546	660,288	1,334,849	1,104,220	78	154	195,102	1,488	638,054

¹ Embraces agricultural implements, 1; artificial limbs, 2; baking and yeast powders, 1; bicycles and tricycles, 1; billiard tables and materials, 1; boot and shoe uppers, 2; boots and shoes, factory product, 1; boxes, cigar, 2; boxes, fancy and paper, 2; boxes, wooden packing, 1; brassware, 1; bridges, 1; carpets and rugs, other than rag, 1; carriage and wagon materials, 2; cars and general shop construction and repairs by street railroad companies, 1; cars, street railroad, not including operations of railroad companies, 2; charcoal, 1; chemicals, 2; clothing, men's, factory product, 1; clothing, women's, factory product, 2; coffee and spice, roasting and grinding, 2; cooperage, 1; cordials and syrups, 1; cotton goods, 1; druggists' preparations, not including prescriptions, 2; engraving and diesinking, 1; engraving, steel, including plate printing, 1; engraving, wood, 1; fancy articles, not elsewhere specified, 1; gas machines and meters, 1; glass, 1; gloves and mittens, 1; gold and silver, reducing and refining, not from the ore, 1; grease and tallow, 2; hand stamps, 1; hardware, 1; hats and caps, not including fur hats, and wool hats, 1; ink, printing, 1; ink, writing, 1; instruments, professional and scientific, 2; ironwork, architectural and ornamental, 2; jewelry and

TABLE 8.—MANUFACTURES IN CITIES

DENVER.

1	All industries.....	1,474	\$30,883,046	\$2,898,293	\$7,924,109	\$10,668,624	\$9,392,020	1,461	1,189	\$1,213,703	10,926	\$6,824,008
2	Awnings, tents, and sails.....	5	72,370			6,786	65,584	5	5	0,040	44	23,666
3	Bicycle and tricycle repairing.....	69	45,616			27,663	17,953	83	2	1,920	48	28,975
4	Blacksmithing and wheelwrighting.....	85	104,335	33,800	27,500	14,080	28,955	94	1	1,000	96	75,252
5	Bookbinding and blank book making.....	4	30,850			11,900	18,450	3	7	3,542	19	11,151
6	Boots and shoes, custom work and repairing.....	100	33,029	4,475	7,535	10,970	10,049	101			39	24,612
7	Bottling.....	7	91,681	8,500	27,616	9,523	46,042	7	7	9,949	39	17,190
8	Brass castings and brass finishing.....	3	29,500	10,000	9,000	6,500	4,000	2	1	1,500	19	12,000
9	Bread and other bakery products.....	79	405,292	29,425	53,300	187,020	135,547	76	59	44,027	311	162,968
10	Brick and tile.....	20	295,250	91,500	32,415	79,510	91,825	22	7	9,000	208	128,039
11	Brooms and brushes.....	4	23,300			10,000	13,300	2	11	3,000	38	16,730
12	Carpentering.....	59	150,703	3,850	3,300	20,460	123,093	71	8	2,150	335	244,749
13	Carpets, rug.....	5	2,769	200	100	7,480	989	5			13	6,736
14	Carriages and wagons.....	16	114,081	27,200	27,600	7,300	51,981	18	4	3,100	79	56,272
15	Cars and general shop construction and repair by street railroad companies.....	5	905,147	165,000	247,000	318,468	174,079	69	69	06,015	1,006	622,551
16	Clothing, men's, custom work and repairing.....	100	220,631	3,300	2,500	13,879	200,952	107	16	14,845	448	266,527
17	Clothing, women's, dressmaking.....	36	650,745	353,200	152,800	25,740	119,005	37	13	27,500	353	150,578
18	Confectionery.....	23	197,477	15,000	16,500	39,305	136,672	22	52	29,569	128	64,513
19	Dyeing and cleaning.....	18	5,240			3,400	1,840	24			13	6,860
20	Electrical apparatus and supplies.....	4	77,000			50,000	27,000	3	6	6,000	84	41,720
21	Electrical construction and repairs.....	4	6,475			2,925	3,550	4	1	500	11	8,840
22	Electroplating.....	3	3,000			2,400	600	3			6	3,000
23	Flouring and grist mill products.....	5	631,600	115,000	135,000	152,500	229,100		25	26,320	98	53,782
24	Food preparations.....	7	26,240	10,250	6,800	4,160	5,030	9			67	24,085
25	Foundry and machine shop products.....	45	1,916,622	178,524	286,050	717,199	739,849	33	33	114,149	1,169	722,330
26	Fur goods.....	4	25,225			725	24,500	4	1	200	25	11,300
27	Furniture, cabinetmaking, repairing, and upholstering.....	23	34,870	1,800	700	6,165	26,205	22	6	6,820	74	39,753
28	Furniture, factory product.....	3	56,850	3,000	5,150	5,800	42,900	2	5	5,500	48	30,842
29	Glass, cutting, staining, and ornamenting.....	5	26,925			5,100	21,825	3	3	1,145	20	8,900
30	Hairwork.....	3	958			103	850	3			3	1,250
31	Jewelry.....	10	36,168			6,540	29,628	8	4	3,915	36	25,315
32	Liquors, malt.....	4	4,953,859	323,000	1,945,000	1,435,000	1,250,859	3	21	49,600	206	167,722
33	Lock and gun smithing.....	11	11,270	650	1,600	4,370	4,750	16			12	7,430
34	Looking-glass and picture frames.....	11	20,520			2,820	17,700	9	5	2,000	27	16,790
35	Lumber, planing mill products, including sash, doors, and blinds.....	10	648,700	199,000	100,200	78,400	271,100	6	25	30,790	301	221,760
36	Marble and stone work.....	21	204,015	110,000	17,340	35,035	41,640	27	5	8,500	266	213,964
37	Masonry, brick and stone.....	15	72,735	1,500	3,000	24,035	44,200	19	12	12,980	563	392,278
38	Mattresses and spring beds.....	5	62,657	5,054	11,000	9,536	37,067	6	4	4,300	56	27,474
39	Millinery, custom work.....	35	68,022			7,057	60,965	38	7	5,948	104	49,132
40	Mineral and soda waters.....	6	38,300			29,400	8,900	5	11	8,404	32	16,247
41	Models and patterns.....	5	5,900			3,150	2,750	5			14	18,543
42	Monuments and tombstones.....	13	41,800	11,000	2,950	8,450	19,400	16	1	1,200	24	23,231
43	Optical goods.....	7	10,750			4,750	6,000	4	1	600	19	11,420
44	Painting, house, sign, etc.....	57	80,480	2,650	1,850	15,585	60,395	60	18	16,592	246	155,060
45	Paper hanging.....	7	16,325			1,750	14,575	7	2	700	44	25,914
46	Patent medicines and compounds.....	6	36,046			5,686	30,460	9	22	33,900	32	16,160
47	Photography.....	28	37,310		200	20,475	16,635	31	6	4,166	64	36,269
48	Pickles, preserves, and sauces.....	7	35,900	3,200	9,800	9,650	13,250	8	9	5,100	32	13,660
49	Plumbing, and gas and steam fitting.....	59	120,244	2,550	3,200	28,744	85,750	64	16	15,072	215	142,666
50	Pottery, terra cotta, and fire-clay products.....	5	278,590	55,200	37,440	37,150	148,800	6	21	26,692	79	37,885
51	Printing and publishing, book and job.....	52	604,486	70,000	38,500	262,613	233,373	58	56	59,274	390	251,561

SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
290	\$203,274	39	\$18,864	8	\$1,178	\$72,523	\$11,716	\$1,814	\$57,558	\$1,435	\$234,094	\$232,688	\$1,406	\$679,947	77
23	13,838					5,732	1,386	84	4,262		10,661	10,600	61	41,721	78
3	1,836					777	520	22	235		1,380	1,360	20	5,082	79
120	86,579	3	1,186			37,279	24,605	2,186	9,988	500	82,169	79,957	2,212	318,745	80
31	18,500					8,950	1,920	360	6,670		54,480	53,280	1,200	98,200	81
1,038	509,558	397	111,713	63	16,783	259,841	37,446	21,364	200,631	400	2,000,755	1,908,522	92,233	3,581,652	82

instrument cases, 1; kaolin and other earth grinding, 2; lamps and reflectors, 2; lead, bar, pipe, and sheet, 1; leather goods, 1; lithographing and engraving, 2; millinery and lace goods, 1; musical instruments and materials, not specified, 2; musical instruments, organs and materials, 1; musical instruments, pianos and materials, 1; paints, 2; paper and wood pulp, 2; perfumery and cosmetics, 1; petroleum, refining, 2; photographic materials, 2; photolithographing and photo-engraving, 1; plumbers' supplies, 1; printing materials, 1; refrigerators, 2; regalia and society banners and emblems, 1; scales and balances, 2; show cases, 1; smelting and refining, not from the ore, 1; sporting goods, 2; steam fittings and heating apparatus, 2; stereotyping and electrotyping, 2; sugar and molasses, beet, 1; surgical appliances, 2; tobacco, chewing, smoking, and snuff, 2; tools, not elsewhere specified, 1; umbrellas and canes, 1; vinegar and cider, 1; washing machines and clothes wringers, 1; wool scouring, 1.

BY SPECIFIED INDUSTRIES: 1900.

DENVER.

9,561	\$6,330,908	1,275	\$474,249	90	\$13,851	\$2,409,785	\$435,196	\$142,420	\$1,527,371	\$304,798	\$24,572,199	\$23,806,530	\$765,669	\$41,368,693	1
15	12,604	29	11,062			6,558	3,060	301	2,297		126,977	126,469	508	178,097	2
47-	28,755			1	220	19,646	15,919	314	3,418		07,741	65,772	1,969	174,642	3
93	75,252					14,848	10,476	975	2,942	455	83,061	78,732	4,279	269,411	4
7	6,634	9	3,967	3	550	1,747	1,190	32	625		15,910	16,720	100	38,100	5
39	24,612					12,837	11,018	263	1,556		40,759	39,576	1,183	125,181	6
38	16,930			1	260	16,741	404	1,853	14,484		115,756	114,924	832	203,285	7
19	12,000					1,463	720	190	553		38,325	36,945	1,380	64,700	8
207	129,911	103	32,729	1	328	71,049	25,292	3,012	42,745		593,343	577,407	18,936	1,132,127	9
206	127,659			2	440	22,370	9,867	1,161	11,342		40,617	9,391	31,226	262,456	10
36	16,230	1	400	1	100	2,401	1,150	176	1,075		22,095	21,450	645	49,120	11
335	244,749					202,271	8,094	497	6,592	187,088	474,001	473,728	273	1,122,315	12
11	5,270	2	466			750	500	27	223		2,093	2,030	63	10,700	13
77	55,772			2	500	7,488	3,469	792	2,586		47,716	46,438	1,278	146,894	14
1,006	622,551					28,195	21,000	5,850	797	548	578,628	604,838	13,785	1,295,384	15
387	243,028	59	22,224	2	375	65,565	41,640	1,406	14,703	7,816	301,286	298,468	2,823	807,066	16
36	21,250	316	129,188	1	145	15,290	7,792	1,605	5,898		163,337	162,123	1,214	456,455	17
59	33,608	68	20,760	1	145	95,948	15,336	1,567	18,545		200,163	197,350	2,813	391,807	18
7	3,380	6	2,480			4,944	4,001	90	853		5,908	5,107	801	38,762	19
56	30,120	27	11,200	1	400	8,027	3,610	470	4,047		51,608	49,782	1,826	121,000	20
11	8,840					2,070	1,145	40	885		11,382	11,240	92	29,000	21
6	3,000					775	650	15	110		3,248	2,532	716	10,760	22
97	53,032	1	750			34,039	500	7,341	26,198		1,461,040	1,448,906	12,134	1,701,658	23
61	23,075	6	1,010			2,394	718	358	1,818		28,604	27,224	1,380	69,735	24
1,164	720,530	8	1,470	2	330	171,539	16,787	8,398	143,154	3,200	1,061,920	1,002,416	59,504	2,362,032	25
6	5,300	19	6,060			3,973	2,200	113	1,600		27,185	27,000	185	56,200	26
74	39,753					7,601	6,161	198	1,242		46,027	45,195	832	126,740	27
47	30,417	1	425			4,887	2,360	182	2,345		59,346	58,730	616	122,555	28
20	8,900					2,149	1,595	34	520		15,898	15,407	491	37,100	29
36	25,315	3	1,250			2,199	1,736	13	450		5,375	5,300	75	12,250	30
						6,580	4,060	402	1,818	300	33,511	32,557	954	92,802	31
197	165,072			9	2,650	620,570		22,703	597,867		224,617	201,456	23,161	1,439,956	32
11	7,280	1	150			3,110	2,366	126	618		5,489	4,724	765	23,187	33
25	16,390	2	400			4,986	3,410	246	1,330		59,380	59,240	140	100,798	34
301	221,760					31,070	1,215	4,805	10,350	14,700	377,622	372,489	5,133	734,082	35
266	213,364					5,156	742	1,199	3,215		185,143	182,321	2,822	524,350	36
563	392,278					10,276	1,885	466	16,925		502,099	498,510	3,589	1,002,350	37
33	19,981	18	7,438			4,116	812	379	3,425		68,218	66,064	2,154	120,267	38
5	2,500	99	46,632			24,396	19,173	524	4,599		105,738	104,970	763	242,744	39
29	15,757	1	250	2	240	4,921	2,640	345	1,330		30,568	30,202	666	91,146	40
14	13,543					1,233	815	33	380		3,571	2,961	610	27,780	41
24	23,281					3,275	850	372	1,644	409	28,882	27,850	532	83,370	42
15	10,400	4	1,020			3,405	4,150	4,105	8,074		18,014	17,640	374	58,300	43
240	154,806			6	854	20,333	11,503	756	8,074		125,668	125,124	544	397,056	44
43	25,706			1	203	3,503	2,426	177	300		19,788	19,743	45	64,295	45
17	9,500	15	6,600			19,509	3,378	254	15,377		50,575	50,136	439	124,348	46
45	28,035	19	7,634			23,026	14,307	656	8,063		49,846	49,445	401	156,390	47
19	10,680	13	2,980			2,522	670	227	1,625		27,211	25,636	1,575	64,700	48
214	142,401			1	265	25,395	12,997	796	9,382	2,220	313,352	311,737	1,615	537,217	49
77	36,885	1	350	1	150	6,990	720	1,625	4,645		14,984	10,231	4,753	89,150	50
327	221,077	54	28,614	9	1,840	92,676	19,253	3,511	45,977	23,935	183,266	174,168	9,098	808,895	51

TABLE 8.—MANUFACTURES IN CITIES

DENVER—Continued.

MANUFACTURING AND MECHANICAL INDUSTRIES, AND CITIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
52 Printing and publishing, newspapers and periodicals.	65	\$878,270	\$30,000	\$38,320	\$504,604	\$305,346	50	108	\$189,291	649	\$430,419
53 Roofing and roofing materials	13	57,720	15,300	8,850	15,420	18,150	13	11	6,760	67	31,107
54 Saddlery and harness	22	149,186	8,000	11,500	13,339	116,347	19	20	15,525	83	53,291
55 Shirts	5	15,600			2,550	13,050	4	3	2,412	61	19,264
56 Slaughtering, wholesale, not including meat packing.	5	68,843	8,000	4,700	18,000	38,143	2	9	6,960	40	25,274
57 Soap and candles.	3	205,154	20,000	40,500	81,179	63,475	2	10	16,674	50	25,762
58 Tinsmithing, coppersmithing, and sheet-iron working.	40	205,437	12,875	24,350	39,013	129,199	41	14	13,300	164	103,158
59 Tobacco, cigars and cigarettes	38	123,935	18,950	19,150	4,925	80,910	33	22	19,200	238	162,335
60 Trunks and valises.	5	16,600	500	1,000	200	14,900	4	1	1,500	21	12,638
61 Typewriter repairing.	4	1,185			225	960	2	2	300	3	1,836
62 Watch, clock, and jewelry repairing	46	48,350	1,143	886	21,668	24,653	42	3	1,320	73	44,150
63 Wirework, including wire, rope, and cable.	3	49,210			21,160	28,050	1	8	7,600	31	18,500
64 All other industries ¹	107	15,496,203	950,697	4,563,007	6,184,181	3,798,315	73	210	289,277	1,853	1,178,057

¹ Embraces artificial limbs, 2; baking and yeast powders, 1; billiard tables and materials, 1; boot and shoe uppers, 1; boots and shoes, factory product, 1; boxes, cigar, 2; boxes, fancy and paper, 2; boxes, wooden packing, 1; brassware, 1; carpets and rugs, other than rag, 1; carriage and wagon materials, 2; cars, street railroad, not including operation of railroad companies, 2; cheese, butter, and condensed milk, factory product, 2; chemicals, 2; china decorating, 2; clothing, men's, factory product, 1; clothing, women's, factory product, 2; coffee and spice, roasting and grinding, 2; coke, 1; cooperage, 1; cordials and sirups, 1; corsets, 2; druggists' preparations, not including prescriptions, 2; engraving and die-sinking, 1; engraving, steel, including plate printing, 1; engraving, wood, 1; fancy articles, not elsewhere specified, 1; flavoring extracts, 1; fruits and vegetables, canning and preserving, 1; gas, illuminating and heating, 1; gas machines and meters, 1; gloves and mittens, 1; gold and silver, reducing and refining, not from the ore, 1; hand stamps, 1; hardware, 1; hats and caps, not including fur hats, and wool hats, 1; ice, artificial, 2; ink, printing, 1; ink, writing, 1; instruments, professional and scientific, 2; iron and steel, 1; ironwork, architectural and

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1 All industries	241	\$12,374,248	\$754,427	\$3,806,645	\$3,877,615	\$3,935,561	217	320	\$370,428	4,911	\$3,044,280
2 Bicycle and tricycle repairing	7	11,802			3,272	8,530	6	4	3,720	12	6,301
3 Blacksmithing and wheelwrighting	13	7,336	500	825	2,310	3,700	18			8	5,622
4 Boots and shoes, custom work and repairing.	15	2,852			1,537	1,265	15			4	2,343
5 Bottling	4	106,200	4,650	94,700	2,000	4,850	1	5	4,300	11	7,250
6 Bread and other bakery products	12	23,000	6,750	8,850	3,315	3,485	13	1	334	31	17,637
7 Brick and tile	3	7,700	300	1,700	2,200	3,500	2	1	900	17	6,304
8 Carpentering	17	23,653	6,500	6,600	6,053	4,400	18			92	54,622
9 Carriages and wagons	5	63,290	11,000	15,000	9,950	27,340	4	6	6,360	30	18,334
10 Cars and general shop construction and repairs by steam railroad companies.	4	143,822	47,350	62,435	10,732	23,305		14	14,735	338	208,448
11 Clothing, men's, custom work and repairing.	15	18,154	2,500	1,600	2,132	11,872	16	2	2,400	30	20,235
12 Confectionery	6	104,814	3,500	1,500	47,976	51,838	5	21	18,379	61	22,171
13 Foundry and machine shop products	7	529,246	24,329	85,004	168,380	251,533	3	17	11,534	441	251,860
14 Furniture, cabinetmaking, repairing, and upholstering.	4	4,195			1,095	3,100	3			6	4,320
15 Lead, smelting and refining	3	6,971,757	456,447	2,188,673	2,249,546	2,077,091		65	121,553	1,529	1,134,343
16 Masonry, brick and stone	8	3,700			3,700		9			92	78,373
17 Millinery, custom work	10	18,615			815	17,800	10	4	2,350	32	11,522
18 Painting, house, sign, etc	4	33,300			2,800	36,000	5	9	5,620	57	42,384
19 Photography	4	8,100			3,300	4,800	4			9	5,503
20 Plastering and stuccowork	6	1,025			825	200	9			20	15,025
21 Plumbing, and gas and steam fitting	8	36,184			3,010	33,174	7	8	5,380	61	45,359
22 Printing and publishing, book and job	4	24,000			18,700	5,300	4	3	3,520	21	11,354
23 Printing and publishing, newspapers and periodicals.	11	131,009	8,800	20,000	44,249	57,960	9	5	7,280	90	43,763
24 Saddlery and harness	6	50,192			5,467	44,725	6	4	4,932	49	31,940
25 Tinsmithing, coppersmithing, and sheet-iron working.	7	18,775			6,925	11,850	7	4	4,452	14	13,443
26 Tobacco, cigars, and cigarettes	4	13,530	4,250	3,000	555	5,725	6			12	7,686
27 Watch, clock, and jewelry repairing.	12	10,915	2,000	1,200	4,680	3,035	9	2	2,344	11	6,412
28 All other industries ¹	42	4,001,683	175,551	1,315,553	1,271,391	1,239,183	23	145	150,185	1,333	970,317

¹ Embraces awnings, tents, and sails, 1; bicycles and tricycles, 1; bookbinding and blank book making, 1; boot and shoe uppers, 1; brass castings and brass finishing, 1; bridges, 1; brooms and brushes, 1; carpets, rag, 1; china decorating, 1; clothing, women's, dressmaking, 1; corsets, 1; dyeing and cleaning, 2; electrical construction and repairs, 2; flavoring extracts, 1; flouring and grist mill products, 1; fruits and vegetables, canning and preserving, 1; fur goods, 1; gas, illuminating and heating, 1; ice, artificial, 1; iron and steel, 2; liquors, malt, 1; lock and gun smithing, 2; lumber, planing mill products, including sash, doors, and blinds, 1;

TABLE 9.—MANUFACTURES IN CITIES

1 Total for cities	610	\$6,186,110	\$409,343	\$1,258,966	\$2,475,229	\$2,042,572	666	224	\$206,090	3,276	\$2,169,217
2 Aspen	53	104,675	8,050	14,265	35,075	52,285	50	3	1,073	68	41,939
3 Colorado Springs ¹	159	1,446,189	187,621	121,713	619,223	517,632	180	109	71,719	822	489,337
4 Cripple Creek	127	342,256	34,200	46,925	32,700	178,431	137	34	31,370	400	336,591
5 Leadville	115	3,632,766	117,328	958,808	1,580,834	980,746	119	40	75,408	1,376	854,095
6 Trinidad	87	431,451	35,469	105,322	115,629	225,031	101	22	20,672	329	202,422
7 Victor	69	178,773	31,675	16,933	41,718	38,447	79	7	5,733	231	244,333

¹ Population 21,085, but not considered a manufacturing city, and therefore presented by totals only.

BY SPECIFIED INDUSTRIES: 1900—Continued.

DENVER—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
592	\$407,331	44	\$20,615	13	\$2,473	\$206,880	\$26,945	\$3,736	\$118,157	\$58,042	\$316,798	\$305,223	\$11,575	\$1,519,777	52
67	31,107					7,197	1,623	364	5,205		94,130	92,535	1,595	177,094	53
82	53,091			1	200	12,439	6,482	984	4,973		163,879	162,959	920	282,008	54
5	3,900	46	15,364			2,215	1,156	109	950		39,870	39,710	160	73,500	55
40	25,274					7,689	1,400	739	5,550		592,960	590,989	1,971	665,023	56
45	24,450	5	1,312			14,811	1,386	1,805	12,120		170,087	168,004	2,033	241,544	57
154	99,568	8	3,200	2	390	81,077	11,870	1,765	14,142	3,800	259,612	256,940	2,672	503,841	58
205	146,465	31	15,650	2	220	46,363	4,541	863	39,524	1,435	155,887	155,282	605	476,494	59
21	12,638					3,592	786	69	2,737		10,101	10,055	46	37,921	60
3	1,836					777	520	22	235		1,380	1,360	20	5,082	61
71	43,374	2	776			14,693	9,779	728	3,786	400	36,354	35,637	717	136,605	62
31	18,500					8,950	1,920	360	6,670		54,480	53,280	1,200	98,200	63
1,569	1,102,636	260	69,953	24	5,413	351,790	40,164	54,346	256,880	400	14,557,025	14,037,037	519,988	18,956,078	64

ornamental, 1; jewelry and instrument cases, 1; lamps and reflectors, 2; lead, bar, pipe, and sheet, 1; lead, smelting and refining, 2; leather goods, 1; lithographing and engraving, 2; millinery and lace goods, 1; musical instruments and materials, not specified, 2; musical instruments, organs and materials, 1; musical instruments, pianos and materials, 1; paints, 2; paper, 1; paving and paving materials, 2; perfumery and cosmetics, 1; photographic materials, 2; photolithographing and photoengraving, 1; plastering and stuccowork, 2; plumbers' supplies, 1; printing materials, 1; refrigerators, 2; regalia and society banners and emblems, 1; scales and balances, 2; sewing machine repairing, 1; show cases, 1; slaughtering and meat packing, wholesale, 2; sporting goods, 1; steam fittings and heating apparatus, 2; stereotyping and electrotyping, 2; surgical appliances, 2; taxidermy, 2; tobacco, chewing, smoking, and snuff, 2; tools, not elsewhere specified, 1; umbrellas and canes, 1; vinegar and cider, 1; washing machines and clothes wringers, 1.

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4,756	\$3,000,093	127	\$39,667	28	\$4,520	\$577,501	\$46,480	\$34,232	\$430,926	\$65,863	\$22,589,669	\$21,448,078	\$1,141,591	\$30,795,481	1
12	6,301					3,116	2,272	100	744		12,852	12,333	469	33,125	2
7	5,466			1	156	2,034	1,838	73	103		7,564	7,108	456	33,645	3
4	2,343					2,106	1,939	31	136		7,123	7,034	91	20,727	4
10	7,000			1	250	690		17	673		26,043	25,805	238	43,638	5
26	16,292	5	1,245			7,208	2,602	709	3,897		52,167	50,352	1,815	90,989	6
17	6,804					852	450	44	358		4,657	4,447	3,210	15,900	7
92	54,622					66,261	655	148	1,658	63,800	99,923	99,816	107	257,788	8
30	18,334					3,233	886	852	1,500		20,303	19,840	463	57,784	9
338	208,448					1,405		1,467	238		162,334	159,924	2,460	337,622	10
19	15,157	10	4,922	1	156	4,220	3,069	252	899		20,499	20,208	291	58,714	11
25	14,984	34	7,032	2	155	27,907	3,660	685	23,562		70,273	68,727	1,546	135,598	12
441	251,830					36,501	1,260	1,808	33,433		413,532	393,622	19,910	1,133,903	13
6	4,329					750	450	60	190	50	6,004	5,949	55	16,276	14
1,529	1,134,343					33,555		9,824	23,731		16,440,397	15,384,282	556,115	19,829,549	15
92	78,873					3,185	1,030		1,355	800	67,507	67,507		177,659	16
57	42,334	32	11,522			5,517	4,257	385	875		32,993	32,371	127	66,250	17
7	4,783	2	720			5,000	1,806	608	2,586		32,181	32,125	56	109,141	18
20	15,025					2,080	1,260	63	757		5,448	5,267	181	22,909	19
						1,070			446	624	13,805	13,720	85	39,164	20
59	45,059			2	300	3,736	1,633	131	1,972		54,608	54,078	530	134,050	21
20	10,854	1	500			2,241	1,692	146	403		13,359	12,846	513	42,100	22
80	40,716	7	2,335	3	712	20,823	1,750	1,938	17,446	589	32,318	31,010	1,308	137,281	23
47	31,485	1	390	1	65	6,934	2,692	537	3,755		65,265	64,842	423	119,263	24
14	13,443					1,553	1,125	173	250		33,824	33,550	274	68,287	25
12	7,686					1,835	100	89	1,646		8,390	8,274	116	20,200	26
11	6,412					2,396	1,989	52	355		5,859	5,794	65	24,232	27
1,781	957,090	35	11,001	17	2,726	331,233	8,045	15,235	307,958		4,379,381	4,329,697	550,131	7,670,091	28

marble and stone work, 2; mattresses and spring beds, 2; mineral and soda waters, 1; monuments and tombstones, 1; optical goods, 1; paper hanging, 1; paving and paving materials, 2; pottery, terra cotta, and fire-clay products, 1; sewing machine repairing, 1; slaughtering and meat packing, wholesale, 2; trunks and valises, 1.

UNDER 20,000 IN POPULATION: 1900.

3,089	\$2,108,125	158	\$56,505	29	\$4,587	\$524,770	\$116,965	\$30,880	\$243,130	\$133,795	\$7,360,651	\$6,937,383	\$429,268	\$11,503,783	1
54	36,801	14	5,138			12,663	5,348	1,653	5,162		37,084	33,656	3,423	206,447	2
748	467,995	57	18,427	17	2,915	202,039	39,952	11,172	86,091	64,824	793,527	776,215	22,312	1,840,642	3
852	320,329	44	15,574	4	688	64,471	28,879	4,209	20,403	10,980	714,016	703,012	11,004	1,417,846	4
1,352	843,705	20	10,030	4	360	94,829	23,159	8,009	63,111	550	5,061,979	4,681,667	380,312	6,436,680	5
308	197,104	18	4,806	3	452	79,961	11,232	4,374	57,914	6,241	233,212	230,311	7,901	679,649	6
275	242,131	5	2,530	1	172	70,807	7,895	1,263	10,449	51,200	466,333	462,522	4,311	922,524	7

UTAH.

Utah was organized as a territory in 1850, but until 1868 its area was much greater than that of the present state. The Ninth Census (1870) is, therefore, the first with which comparison can be made.

Table 1 shows the manufacturing and mechanical industries as returned at the censuses of 1850 to 1900, inclusive, with the percentages of increase for each decade. This table

also presents the average number of wage-earners employed by manufacturing establishments, in comparison with the total population of the state, and the value of the land and buildings owned and reported by manufacturers as capital, in comparison with the assessed value of all real estate and improvements.

TABLE 1.—COMPARATIVE SUMMARY 1850 TO 1900, WITH PER CENT OF INCREASE FOR EACH DECADE.

	DATE OF CENSUS.					PER CENT OF INCREASE.					
	1900	1890	1880	1870	1860	1850	1890 to 1900	1880 to 1890	1870 to 1880	1860 to 1870	1850 to 1860
Number of establishments	1,400	581	640	533	148	14	163.7	117.0	20.1	260.1	957.1
Capital	\$14,050,948	\$6,583,022	\$2,656,657	\$1,391,898	\$143,356	\$44,400	122.6	147.8	90.9	213.9	898.5
Salaried officials, clerks, etc., number	740	4,631	(3)	(3)	(3)	(3)	17.3	(3)	(3)	(3)	(3)
Salaries	\$566,165	\$524,640	(3)	(3)	(3)	(3)	7.9	(3)	(3)	(3)	(3)
Wage-earners, average number	6,615	4,949	2,495	1,534	380	51	52.1	74.3	62.6	294.3	662.7
Total wages	\$3,388,370	\$2,191,265	\$858,863	\$395,865	\$231,701	\$9,984	54.6	155.1	117.2	70.6	2220.7
Men, 16 years and over	5,579	3,657	2,042	1,465	380	51	52.6	79.1	39.4	285.5	645.1
Wages	\$3,143,090	\$2,041,814	(3)	(3)	(3)	\$9,984	54.0	(3)	(3)	(3)	(3)
Women, 16 years and over	818	485	221	43	9	(3)	68.7	119.5	414.0	377.8	(3)
Wages	\$207,852	\$123,117	(3)	(3)	(3)	(3)	68.8	(3)	(3)	(3)	(3)
Children, under 16 years	218	207	232	26	(3)	(3)	5.3	110.8	792.3	(3)	(3)
Wages	\$37,428	\$26,334	(3)	(3)	(3)	(3)	39.5	(3)	(3)	(3)	(3)
Miscellaneous expenses	\$929,173	\$455,968	(4)	(4)	(4)	(4)	103.8	(4)	(4)	(4)	(4)
Cost of materials used	\$12,912,704	\$4,252,030	\$2,561,737	\$1,238,252	\$439,512	\$337,381	203.7	66.0	106.9	181.7	30.3
Value of products, including custom work and repairing	\$21,215,783	\$8,911,047	\$4,324,992	\$2,343,019	\$900,153	\$291,220	138.1	106.0	84.6	160.3	209.1
Total population	¹ 274,952	207,905	143,963	86,786	40,273	11,380	32.2	44.4	65.9	115.5	253.9
Wage-earners engaged in manufactures	6,615	4,949	2,495	1,534	380	51	52.1	74.3	62.6	294.3	662.7
Per cent of total population	2.4	2.1	1.7	1.8	1.0	0.4	(3)	(3)	(3)	(3)	(3)
Assessed value of real estate	\$104,970,258	\$80,218,871	\$14,770,344	\$7,017,881	\$286,504	\$337,866	30.9	442.8	109.7	2360.0	115.2
Value of land and buildings invested in manufactures	\$4,803,687	\$2,119,986	(3)	(3)	(3)	(3)	126.6	(3)	(3)	(3)	(3)
Per cent of assessed value	4.6	2.6	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)

¹ Decrease.
² Includes proprietors and firm members, with their salaries; number only reported in 1900. (See Table 6.)
³ Not reported separately.
⁴ Not reported.
⁵ Exclusive of 1,797 Indians and other persons on Indian reservations, which

classes were not included at previous censuses.
⁶ Total assessed valuation, real estate not separated, as given for the year 1900, in Dana's Supplement, "State and City," to the Commercial and Financial Chronicle, under date of April 13, 1901.
⁷ Does not include the value of rented property.

Table 2 divides the industries of the state between the hand trades and the manufactures proper. This table also gives the statistics for institutions and establishments with a product of less than \$500; these were not reported at previous censuses, and therefore are omitted from the other tables, and their use confined to Table 2.

In addition to the 1,669 active establishments in the state during the census year, with a capital of \$15,043,958, shown in Table 2, there were 16 idle establishments, with a

capital of \$276,471. Of these, 2, with a capital of \$30,800, were reported for the manufacture of brick and tile; 5, with a combined capital of \$17,775, for the manufacture of flouring and grist mill products; 1, with a capital of \$188,346, for lead smelting and refining; and 1, with a capital of \$21,500, for the manufacture of lime and cement. The remaining idle capital, amounting to \$18,550, was invested in comparatively small establishments reported for various industries.

TABLE 2.—SUMMARY FOR ALL ESTABLISHMENTS.

CLASSES.	Number of establishments.	Capital.	Proprietors and firm members.	WAGE-EARNERS.		Miscellaneous expenses.	COST OF MATERIALS USED.				Value of products, including custom work and repairing.
				Average number.	Total wages.		Total.	Purchased in raw state.	Purchased in partially manufactured form.	Fuel, freight, etc.	
Total	1,669	\$15,043,958	1,817	6,666	\$3,395,900	\$934,001	\$12,942,107	\$7,837,552	\$4,054,567	\$1,049,988	\$21,299,500
Hand trades ¹	614	918,939	717	1,074	537,989	154,311	950,836	16,288	885,375	49,178	2,333,716
Educational institutions	5	302,117	(3)	26	5,220	850	7,682	519	6,449	714	15,732
Establishments with a product of less than \$500	264	90,893	287	25	2,310	3,978	21,721	898	20,599	224	67,985
All other establishments	786	13,732,009	813	5,541	2,850,361	774,862	11,961,808	7,819,852	3,142,144	999,872	18,882,067

¹ Includes bicycle and tricycle repairing, 21; blacksmithing and wheelwrighting, 187; boots and shoes, custom work and repairing, 80; carpentering, 43; clothing, men's, custom work and repairing, 62; clothing, women's, dressmaking, 28; dyeing and cleaning, 5; furniture, cabinetmaking, repairing, and upholstering, 9; lock and gun smithing, 7; masonry, brick and stone, 5; millinery, custom work, 52; painting, house, sign, etc., 29; paper hanging, 3; plastering and stuccowork, 3; plumbing, and gas and steam fitting, 27; sewing machine repairing, 4; taxidermy, 2; typewriter repairing, 1; watch, clock, and jewelry repairing, 46.

Of the 1,669 establishments of all classes, 878, or 52.6 per cent, were small shops included in the group of "hand trades" and "establishments with a product of less than \$500." The value of products of these establishments, consisting chiefly of sums received for custom work and repairing, amounted to \$2,401,701, or only 11.3 per cent of the total products for the state.

Table 1 shows a rapid increase in the manufacturing and mechanical industries of Utah, but, as previously explained, the statistics for 1850 and 1860 pertain to a greater area than that now covered by the state. The increase during the last decade is largely due to the inclusion as a manufacturing industry in 1900 of lead smelting and refining—which industry was included in the report on mineral industries in 1880 and 1890. The totals for 1870 included one establishment with a product valued at \$75,000, engaged in milling quartz, an industry which has been excluded from the reports on manufactures since that time. The lead mined in the state during 1899 amounted to 13 per cent of the total production of the United States,¹ and the smelting and refining of this ore is the most important industry manufacturing for the outside market; but as only two establishments were reported for 1900, the statistics cannot be shown separately without disclosing the operations of individual establishments, and are therefore grouped with "All other industries." The product of these smelters includes the precious metals as well as lead, the value of the silver largely exceeding the value of lead produced.

The highly concentrated brine of Great Salt Lake has made the manufacture of salt an important industry in the state, although the value of the product reported in 1900 was but \$139,488, as compared with \$144,300 in 1890.

Another leading industry was the manufacture of boots and shoes, with a product valued at \$225,986. Among the lines of industrial activity dependent upon the agricultural and horticultural products of the state, are flour and grist milling, with a product valued at \$1,829,840; the canning of fruits and vegetables, with a product valued at \$300,349; the manufacture of beet sugar, with a product valued at \$1,037,355; of malt liquors, with a product valued at \$432,835; and of butter and cheese, with a product valued at \$713,889.

Three other large industries show value of products as follows: Construction and repair shops of steam railroads,

¹ Production of Lead in 1899, page 9. (Extract from Annual Report of the Geological Survey, 1899-1900, Part VI.)

\$1,306,591; foundry and machine shops, \$217,392; and lumber and timber products, \$214,187.

URBAN MANUFACTURES.

Table 3 shows the totals for the manufacturing and mechanical industries of Salt Lake City as returned at the censuses of 1880, 1890, and 1900 with the percentages of increase.

TABLE 3.—COMPARATIVE SUMMARY, SALT LAKE CITY, 1880, 1890, AND 1900, WITH PER CENT OF INCREASE FOR EACH DECADE.

	DATE OF CENSUS.			Per cent of increase.	
	1900	1890	1880	1890 to 1900	1880 to 1890
Number of establishments	432	175	166	146.9	5.4
Capital	\$4,048,906	\$3,854,035	\$860,415	20.7	289.8
Wage-earners, average number	2,977	1,986	928	49.9	114.0
Total wages	\$1,601,253	\$1,205,454	\$425,537	32.8	158.3
Miscellaneous expenses	\$473,634	\$291,255	(1)	64.7	—
Cost of materials used	\$2,713,674	\$1,966,818	\$812,736	39.5	142.0
Value of products, including custom work and repairing	\$6,109,409	\$4,624,419	\$1,610,188	32.1	187.2

¹ Not reported.

It appears from Table 3 that there has been a considerable increase during the past decade in the manufactures of the city. The number of establishments increased from 175 to 432, or 146.9 per cent; the average number of wage-earners from 1,986 to 2,977, or 49.9 per cent; and the value of products from \$4,624,419 to \$6,109,409, or 31.1 per cent. There were 432 establishments in Salt Lake City in 1900, or 30.9 per cent of the entire number located within the state. These establishments had a combined capital amounting to \$4,048,906, or 27.6 per cent of all the capital employed in the state. Of the wage-earners, 2,977, or 45 per cent of all in the state were employed in Salt Lake City. The total amount of wages paid in the city amounted to \$1,601,253, or 47.3 per cent of all wages paid in the state. The value of products, including custom work and repairing, during 1900 was \$6,109,409, or 28.8 per cent of the total products of the state.

Table 4 combines the totals for the industries in Brigham, Lehi City, Logan, Ogden, Park City, Provo City, Salt Lake City, and Springville, and places them in comparison with the totals for the entire state and the state exclusive of these cities.

TABLE 4.—URBAN MANUFACTURES.

	Number of establishments.	Capital.	Proprietors and firm members.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Average number.	Total wages.			
Total for state.....	1,400	\$14,650,948	1,530	6,615	\$3,888,370	\$929,173	\$12,912,704	\$21,215,788
Total for urban manufactures.....	791	7,152,178	876	4,144	2,156,543	658,984	4,295,857	9,089,685
Brigham.....	38	104,944	36	74	27,709	4,650	105,142	181,701
Lehi City.....	16	1,267,570	20	73	103,304	53,080	388,847	721,381
Logan.....	63	279,352	76	181	62,081	14,493	218,491	376,053
Ogden.....	151	734,331	163	537	235,897	73,665	542,753	1,102,765
Park City.....	22	43,714	30	24	13,531	3,932	23,204	72,172
Provo City.....	57	515,496	66	251	105,408	28,931	216,444	431,120
Salt Lake City.....	432	4,043,906	462	2,977	1,601,253	479,694	2,743,674	6,109,409
Springville.....	17	156,760	18	14	6,860	4,909	77,242	95,482
Total for state, exclusive of urban manufactures.....	609	7,498,775	654	2,471	1,231,827	270,239	8,616,847	12,126,098
Per cent of urban manufactures to total for state.....	56.5	48.8	57.3	62.6	63.6	70.9	33.3	42.8

Of the 1,400 establishments in the state, 791, or 56.5 per cent, are located in these 8 cities. The capital reported for these establishments is \$7,152,173, or 48.8 per cent of that of the entire state. They furnished employment to 4,144 wage-earners, or 62.6 per cent of the total number, paid \$3,388,370 in wages, or 63.6 per cent of the total amount, and the value of their products, \$9,089,685, formed 42.8 per cent of the total for the state.

Table 5 shows the totals for the state by counties.

Table 6 shows the totals for the state by specified industries.

Table 7 shows the totals for Salt Lake City by specified industries.

Table 8 shows the totals for all industries in the cities withdrawn from the enumerators, exclusive of Salt Lake City, shown in Table 7.

TABLE 5.—MANUFACTURES

COUNTIES AND MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
The State	1,400	\$14,650,948	\$1,907,868	\$2,895,819	\$5,217,298	\$4,629,963	1,530	740	\$566,165	6,615	\$3,388,370
Beaver	12	37,384	2,075	12,174	20,775	2,360	9	6	4,740	26	10,803
Boxelder	37	141,504	16,018	30,205	48,942	40,344	40	11	2,703	76	28,669
Cache	101	435,007	75,515	92,080	118,170	148,842	110	33	18,725	250	87,782
Carbon	8	79,482	1,800	10,265	63,733	3,684	7	11	10,625	93	68,234
Davis	35	143,551	7,470	31,910	45,736	58,435	35	20	7,664	114	44,885
Emery	13	48,028	1,045	16,055	23,175	7,753	14	2	840	11	4,190
Garfield ¹	16	39,482	2,555	6,660	24,557	5,710	19	3	1,500	34	9,045
Grand	4	3,020	670	925	1,075	450	5				
Iron	16	38,550	3,250	12,550	17,603	5,145	13			13	4,055
Juab	42	119,703	5,885	9,412	48,690	55,716	42	12	6,545	83	43,306
Kane	11	14,300	1,765	2,630	7,725	2,270	11	1	25	7	1,550
Millard	15	39,216	730	12,020	17,675	8,791	15	2	700	15	5,539
Morgan	13	22,781	3,590	4,975	9,005	6,211	16	2	230	6	2,325
Rich	6	22,345	1,280	11,715	2,950	6,400	8	1	200	9	4,400
Salt Lake	502	8,48,495	1,318,865	1,863,720	2,898,446	2,767,464	538	423	378,188	4,146	2,178,543
Sanpete	74	212,785	16,110	40,565	90,136	65,924	77	12	3,271	86	31,185
Sevier	50	105,107	9,680	18,605	55,370	21,452	60	2	1,000	50	16,660
Summit	33	92,650	10,535	18,822	27,870	35,423	43			54	21,916
Tooele	29	85,360	6,890	11,790	20,360	46,320	42	6	4,800	30	16,188
Uinta	25	55,720	3,985	6,780	35,035	9,970	28	2	720	37	14,555
Utah	156	2,139,715	167,635	308,745	905,399	757,026	183	50	42,062	439	260,030
Wasatch	12	40,146	7,850	9,286	20,050	2,960	11	11	3,900	22	7,433
Washington	9	68,394	2,785	25,800	24,375	15,484	7	8	2,542	18	4,640
Wayne	7	16,080	694	4,220	10,225	941	11			4	1,144
Weber	174	1,802,105	289,396	327,010	679,311	556,388	191	117	75,795	997	526,648

¹ Includes establishments distributed as follows: Piute, 1; San Juan, 1.

TABLE 6.—MANUFACTURES BY

1 All industries	1,400	\$14,650,948	\$1,907,868	\$2,895,819	\$5,217,298	\$4,629,963	1,530	740	\$566,165	6,615	\$3,388,370
2 Awnings, tents, and sails	4	28,000			2,750	25,250	4			14	5,640
3 Bicycle and tricycle repairing	21	27,422	460	1,000	9,089	16,873	24	4	1,600	30	10,836
4 Blacksmithing and wheelwrighting	187	162,804	31,335	32,069	40,295	56,105	227	4	1,350	117	58,022
5 Boots and shoes, custom work and repairing.	80	52,664	9,515	13,125	12,130	17,894	83			39	16,028
6 Boots and shoes, factory product	3	124,267	4,750	33,036	21,743	64,788	2	17	17,432	140	52,558
7 Bread and other bakery products	29	209,862	38,750	41,025	83,183	46,949	30	20	10,481	107	46,041
8 Brick and tile	49	171,357	16,778	43,661	61,530	49,388	77	11	6,705	249	89,245
9 Carpentering	43	220,588	37,505	41,085	23,840	113,158	58	18	13,314	209	112,968
10 Carpets, rag	3	270	20	50	160	40	3				
11 Carriages and wagons	5	36,674	2,500	12,300	3,650	18,224	5	8	1,250	38	17,213
12 Cars and general shop construction and repairs by steam railroad companies.	10	496,149	141,200	115,460	147,412	92,087		46	49,389	908	636,076
13 Cheese, butter, and condensed milk, factory product.	57	269,247	11,851	80,861	113,007	64,028	39	54	15,976	159	63,135
14 Clothing, men's, custom work and repairing.	62	134,445	5,625	9,650	9,996	109,174	67	7	5,100	213	122,808
15 Clothing, women's, dressmaking	28	9,115	30	150	4,405	4,530	28	1	1,800	102	25,106
16 Confectionery	24	164,568	2,600	2,200	36,652	118,111	23	49	27,125	163	57,357
17 Dyeing and cleaning	5	365			520	445	7			7	2,166
18 Electrical construction and repairs	6	28,328			1,058	27,270	6	5	4,000	25	13,035
19 Flouring and grist mill products	80	1,101,885	141,335	244,900	450,228	265,362	59	50	32,820	167	82,979
20 Foundry and machine shop products	15	210,394	41,800	41,835	73,253	53,501	21	7	9,912	153	91,976
21 Fruits and vegetables, canning and preserving.	8	304,258	33,645	66,173	57,707	146,733	8	20	8,068	141	37,565
22 Furniture, cabinetmaking, repairing, and upholstering.	9	3,015	2,050	1,550	915	3,500	13	2	325	8	4,076
23 Furniture, factory product	3	8,330	960	2,200	1,409	4,270	1	1	330	31	17,809
24 Hand stamps	3	5,400			2,750	2,650	4			4	1,800
25 Hosiery and knit goods	6	52,550	4,500	3,000	11,800	33,250	4	13	5,260	91	21,699
26 Leather, tanned, curried, and finished	4	8,625	425	2,900	2,100	3,200	1			3	1,500
27 Lime and cement	8	188,150	5,450	14,175	84,410	84,115	5	11	13,300	99	41,474
28 Liquors, malt	7	614,992	154,374	99,999	118,341	242,278	4	22	21,178	89	53,751
29 Lock and gun smithing	7	14,775	5,000	2,000	4,275	3,500	6	2	3,300	6	4,015
30 Looking-glass and picture frames	8	41,950	4,600	2,400	4,775	30,175	11	36	12,000	34	17,880
31 Lumber and timber products	81	182,780	51,827	10,330	93,017	27,608	106	7	1,850	140	43,504
32 Lumber, planing mill products, including sash, doors, and blinds.	28	190,543	15,905	26,100	62,520	95,018	32	16	9,300	114	63,617
33 Marble and stone work	3	6,680	230	100	5,150	1,200	4			7	5,150
34 Masonry, brick and stone	5	3,055	250	250	605	2,550	5			10	5,615
35 Mattresses and spring beds	4	31,094	300	2,300	11,123	17,371	4	4	4,650	33	11,981
36 Millinery, custom work	52	86,791	6,425	16,475	4,916	58,975	57	27	5,984	64	22,859

BY COUNTIES: 1900.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES--continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
5,579	\$3,143,090	818	\$207,852	218	\$37,428	\$929,178	\$168,287	\$87,727	\$605,730	\$72,479	\$12,912,704	\$12,288,810	\$674,894	\$21,215,788	1
17	7,642	9	2,661			981	85	449	447		46,376	45,089	1,287	70,741	2
63	26,735	9	1,466	4	468	5,892	629	761	4,592		118,532	116,763	1,769	202,032	3
166	73,288	70	12,985	14	1,509	21,795	4,760	4,945	11,632	1,058	439,117	431,444	7,673	671,370	4
92	68,184	1	100			5,940	150	251	5,539		70,384	68,702	1,682	199,128	5
97	40,920	15	3,061	2	404	6,299	861	718	4,720		159,852	151,240	8,612	251,217	6
11	4,190					623		388	285		37,442	37,040	402	61,171	7
29	8,970	4	475	1	200	460	66	319	75		32,682	32,562	120	56,214	8
						147	48	31	68		1,691	1,616	75	4,398	9
11	3,880			2	225	1,180	206	464	460		18,149	17,744	405	31,610	10
78	42,311	3	755	2	240	8,880	3,927	1,008	3,945		93,519	91,287	2,232	216,701	11
7	1,550					493	69	128	296		9,501	9,368	133	16,551	12
14	5,498	1	41			582	44	331	207		35,669	35,231	438	63,776	13
6	2,325					640	98	179	363		20,139	19,750	389	33,110	14
9	4,400					874		374			19,442	19,422	220	35,814	15
3,545	2,018,145	493	135,143	108	20,255	631,655	112,790	45,570	407,901	65,394	8,890,845	8,340,846	549,999	14,212,689	16
80	30,812	3	393	3	480	8,690	3,215	1,585	3,585	305	226,163	222,690	3,464	337,958	17
45	16,115	2	305	3	240	3,711	680	962	2,069		102,274	100,441	1,833	168,576	18
50	20,836	2	754	2	326	4,639	1,748	821	2,110	10	63,677	62,439	1,238	129,467	19
28	15,863	1	270	1	50	7,152	2,307	412	2,558	1,875	113,076	111,121	1,955	161,910	20
32	13,572	2	715	3	268	1,991	874	488	629		60,643	59,238	1,405	101,611	21
333	229,808	72	22,965	34	7,257	91,427	11,144	11,078	69,129	76	929,763	871,483	58,280	1,654,817	22
18	6,735	2	436	2	312	756	114	382	260		44,924	44,377	547	63,776	23
10	4,056	2	484	1	100	1,180	48	339	793		27,145	25,692	1,453	39,148	24
4	1,144					773		173	690		12,780	12,670	90	17,435	25
894	496,711	127	24,848	36	5,094	122,913	10,374	16,221	88,657	3,761	1,338,739	1,310,046	28,693	2,421,679	26

SPECIFIED INDUSTRIES: 1900.

5,579	\$3,143,090	818	\$207,852	218	\$37,428	\$929,178	\$168,287	\$87,727	\$605,730	\$72,479	\$12,912,704	\$12,288,810	\$674,894	\$21,215,788	1
6	3,460	7	2,080	1	100	2,697	1,774	139	784		39,640	39,600	40	57,301	2
23	9,800			7	1,036	5,047	3,061	166	1,695	125	21,648	21,150	498	62,801	3
112	57,087			5	985	12,992	7,359	1,586	4,047		101,175	93,677	7,498	344,365	4
34	15,338	4	612	1	78	4,785	3,532	511	742		88,331	37,412	919	104,540	5
98	43,275	40	8,530	2	753	5,017		1,077	3,940		156,046	152,772	3,274	225,986	6
66	35,169	37	10,246	4	626	21,184	7,632	1,523	11,979		142,149	136,188	5,961	291,313	7
228	85,550			21	3,695	9,982	488	825	8,589	30	32,666	5,311	27,355	136,449	8
208	112,753			1	215	37,365	2,002	1,845	6,468	27,050	216,346	215,266	1,080	447,543	9
						111	108	1	2		907	897	10	2,268	10
36	16,980	1	155	1	78	2,331	1,050	309	972		26,317	25,588	729	63,978	11
907	635,776	1	300			16,219		10,815	5,404		604,907	588,820	16,087	1,306,591	12
152	61,963	7	1,172			18,788	3,544	1,628	3,060	556	550,096	541,210	8,886	718,889	13
172	110,349	39	12,126	2	333	26,427	14,348	1,358	9,815	906	181,446	129,129	2,317	397,232	14
		102	25,106			5,785	3,413	7	2,365		38,208	37,858	350	94,822	15
58	29,198	101	27,312	4	847	25,903	12,811	754	12,338		224,307	219,833	4,474	440,044	16
5	1,786	2	380			1,381	1,068	75	238		1,473	1,229	244	9,840	17
25	13,035					3,551	2,142	236	1,173		37,926	37,926	40	71,694	18
169	32,666			1	313	58,425	7,156	9,660	40,359	1,250	1,401,819	1,392,036	9,783	1,829,840	19
152	91,832			1	144	4,719	1,062	1,414	2,243		63,749	54,646	8,103	217,392	20
62	26,037	73	10,172	6	1,356	0,024	58	488	5,478		211,279	207,232	4,027	300,349	21
8	4,076					963	548	87	328		3,108	3,058	50	13,839	22
30	16,777	4	1,032			3,364	1,520	103	1,741		17,315	17,105	210	42,732	23
4	1,800					854	372	42	440		3,836	3,632	184	11,680	24
15	8,900	72	12,674	4	225	4,677	2,107	325	2,145		24,184	24,004	180	66,357	25
3	1,500					215	1	64	150		3,482	3,417	65	5,863	26
98	41,234			1	240	23,195	1,350	608	17,027	4,250	62,453	44,002	18,451	173,512	27
88	52,591			6	1,160	123,838	60	6,369	116,559	850	120,995	108,988	12,007	492,836	28
5	3,815			1	200	1,547	912	183	452		4,781	4,201	580	18,360	29
28	16,290	6	1,480			5,392	2,220	477	2,605		44,710	44,515	195	93,166	30
130	42,381	5	635	5	488	2,198	44	1,066	1,083		102,932	102,932		214,187	31
113	68,306			1	311	29,676	1,080	1,837	5,795	21,000	116,278	118,285	2,993	252,187	32
7	5,150					219	27	22	170		2,883	2,701	182	13,725	33
10	5,615					4,100			100	4,000	11,790	11,790		24,840	34
28	10,331	5	1,650			2,293	1,200	127	966		45,505	44,635	870	75,328	35
		64	22,859			14,927	10,796	902	3,229		125,873	124,987	886	214,007	36

TABLE 6.—MANUFACTURES BY

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
37 Mineral and soda waters.....	8	\$108,838	\$7,850	\$7,000	\$87,784	\$56,254	7	16	\$16,040	67	\$25,160
38 Monuments and tombstones.....	15	41,029	8,100	1,866	6,230	25,738	18	6	2,880	37	21,185
39 Painting, house, sign, etc.....	29	33,279	175	785	6,900	25,419	40	4	1,865	103	59,307
40 Paper hanging.....	3	7,700			350	7,350	4	3	1,420	7	5,487
41 Patent medicines and compounds.....	5	5,135	200	350	1,110	3,475	3	1	500	5	2,102
42 Photography.....	31	50,752	8,205	6,950	19,002	16,595	34	2	1,800	35	15,708
43 Plastering and stuccowork.....	3	2,875			525	2,350	4			2	1,600
44 Plumbing, and gas and steam fitting.....	27	74,078	800	600	10,893	61,885	40	5	4,260	106	57,555
45 Pottery, terra cotta, and fire-clay products.....	7	38,050	8,100	10,500	11,800	7,650	8	2	2,000	36	10,900
46 Printing and publishing, book and job.....	18	143,593			96,655	46,988	25	17	15,122	117	52,389
47 Printing and publishing, newspapers and periodicals.....	62	679,281	52,850	63,445	260,144	302,842	63	78	67,769	431	235,174
48 Roofing and roofing materials.....	3	3,500	750		975	1,775	3			11	5,530
49 Saddlery and harness.....	55	236,911	31,600	41,031	14,070	149,610	71	14	8,052	114	54,988
50 Salt.....	5	646,890	540,010	23,740	25,011	58,089	4	8	10,580	59	23,702
51 Sewing machine repairing.....	4	4,150			1,800	2,350	3			4	1,950
52 Slaughtering and meat packing, wholesale.....	5	83,902	22,369	7,000	10,772	43,761	10	6	2,472	34	14,978
53 Slaughtering, wholesale, not including meat packing.....	3	33,125	4,600	9,000	4,525	15,000	4			8	3,075
54 Sugar and molasses, beet.....	3	1,789,370	77,100	253,500	978,770	480,000		21	29,560	107	123,800
55 Tinsmithing, coppersmithing, and sheet-iron working.....	38	122,128	28,835	33,610	16,635	43,048	42	5	3,694	81	43,183
56 Tobacco, cigars and cigarettes.....	15	46,123	2,000	2,100	890	41,133	17			68	33,499
57 Trunks and valises.....	3	21,200	1,000		600	19,600	3	3	1,416	9	8,450
58 Watch, clock, and jewelry repairing.....	46	43,843	4,600	3,900	15,909	19,443	48	4	516	23	17,313
59 Woolen goods.....	6	454,981	32,620	91,630	95,905	233,826		14	10,050	194	69,681
60 All other industries ¹	60	4,783,263	301,549	1,377,463	2,033,037	1,071,219	46	69	102,870	1,240	638,352

¹Embraces agricultural implements, 2; baking and yeast powders, 1; baskets, and rattan and willow ware, 1; bookbinding and blank book making, 2; bottling, 1; boxes, cigar, 1; boxes, fancy and paper, 1; brooms and brushes, 2; cars and general shop construction and repairs by street railroad companies, 2; charcoal, 1; china decorating, 1; clothing, men's, factory product, 1; coffins, burial cases, and undertakers' goods, 1; coke, 1; copper, smelting and refining, 2; engraving, steel, including plate printing, 1; flavoring extracts, 2; fur goods, 1; furnishing goods, men's, 1; gas, illuminating and heating, 2; gloves and mittens, 1; hairwork, 1;

TABLE 7.—MANUFACTURES IN SALT LAKE CITY

1 All industries.....	432	\$4,048,906	\$524,428	\$480,269	\$1,331,872	\$1,712,387	462	364	\$232,418	2,977	\$1,601,253
2 Awnings, tents, and sails.....	3	26,750			2,500	24,250	3			13	5,160
3 Bicycle and tricycle repairing.....	10	15,400		500	5,250	9,650	10	2	1,120	19	7,478
4 Blacksmithing and wheelwrighting.....	33	35,687	13,900	5,925	7,390	11,472	46			44	22,978
5 Boots and shoes, custom work and repairing.....	25	6,414	500	300	2,685	2,029	26			11	5,844
6 Boots and shoes, factory product.....	3	124,267	4,750	33,036	21,743	64,788	2	17	17,432	140	52,558
7 Bread and other bakery products.....	16	174,092	27,000	36,500	74,263	36,329	15	14	9,333	77	34,462
8 Carpentering.....	9	143,777	25,000	29,700	15,670	78,407	8	8	8,268	92	49,708
9 Carriages and wagons.....	4	32,474	2,000	11,300	3,250	15,924	4	1	250	33	14,813
10 Cars and general shop construction and repairs by steam railroad companies.....	3	208,910	87,000	40,250	49,164	32,496		25	26,071	521	354,656
11 Clothing, men's, custom work and repairing.....	36	95,760	2,600	1,000	6,735	86,424	41	7	5,100	165	98,814
12 Clothing, women's, dressmaking.....	22	6,850			3,940	2,920	22	1	1,800	84	21,823
13 Confectionery.....	12	119,765	1,000	400	25,345	93,020	12	40	18,695	117	39,257
14 Dyeing and cleaning.....	4	815			420	395	5			6	1,003
15 Electrical construction and repairs.....	4	25,893			823	25,070	3	5	4,000	23	11,415
16 Foundry and machine shop products.....	9	178,719	39,800	37,910	54,608	46,401	12	7	9,912	127	81,822
17 Furniture, cabinetmaking, repairing, and upholstering.....	4	2,640	1,300	700	290	350	5			2	1,750
18 Furniture, factory product.....	3	8,330	960	2,200	1,400	4,270	1	1	330	34	17,800
19 Hand stamps.....	3	3,400			2,750	2,650	4			4	1,800
20 Lime and cement.....	3	143,700		7,000	68,100	73,600	1	10	12,700	84	36,974
21 Liquors, malt.....	4	551,743	150,874	86,300	104,791	209,778	2	17	16,458	73	44,987
22 Lock and gun smithing.....	6	3,175			1,875	1,300	6			3	1,815
23 Looking-glass and picture frames.....	5	37,800	4,000	2,000	4,200	27,600	8	36	12,000	32	17,280
24 Lumber, planing mill products, including sash, doors, and blinds.....	3	33,600	2,500	3,600	10,500	17,000	1	6	4,650	28	21,366
25 Millinery, custom work.....	9	26,925		1,500	825	24,000	9	13	3,227	35	13,463
26 Mineral and soda waters.....	4	80,488	2,500	3,500	25,934	48,554	1	13	15,340	60	21,990
27 Monuments and tombstones.....	3	23,350	7,200	50	600	15,500	2	4	2,700	17	13,705
28 Painting, house, sign, etc.....	19	28,594		500	5,425	22,669	25	4	1,865	85	49,860
29 Patent medicines and compounds.....	3	3,783			1,010	2,773	1	1	500	4	1,920
30 Photography.....	11	24,227	2,000	3,200	7,377	11,050	13	2	1,800	21	9,694
31 Plastering and stuccowork.....	3	2,875			525	2,350	4			3	1,600

SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
54	\$21,330	5	\$1,500	8	\$2,330	\$10,087	\$1,390	\$308	\$7,839		\$69,389	\$68,608	\$781	\$148,899	37
36	20,960			1	225	8,080	936	461	1,652	30	49,682	49,404	278	96,086	38
97	58,153			6	1,154	9,212	3,609	183	5,320	100	57,342	57,155	187	168,575	39
7	5,437					846	710	78	58		9,543	9,438	105	24,094	40
4	1,920	1	182			1,071	540	149	382		3,465	3,380	85	10,070	41
25	13,116	9	2,442	1	150	7,361	4,189	579	2,693		24,195	23,701	494	82,965	42
2	1,600					576	156	8	112	300	1,671	1,671		6,300	43
97	56,072	1	255	8	1,223	12,294	5,542	393	4,499	1,860	146,458	145,103	1,355	274,740	44
35	10,750			1	156	1,214	590	467	167		6,196	3,792	2,404	28,000	45
94	47,619	13	3,308	10	1,462	15,191	5,938	976	7,259	1,018	65,038	61,975	3,063	177,286	46
344	216,994	62	14,496	35	3,684	92,129	11,147	3,068	71,270	6,044	188,290	180,371	7,919	593,562	47
11	5,536					339	12	20	357		9,962	9,940	22	21,018	48
109	54,124	1	260	4	604	11,208	4,547	1,919	4,242	600	166,355	155,474	881	284,805	49
58	23,537	1	165			24,065	4,275	402	19,388		31,759	27,435	4,124	139,488	50
3	1,800			1	156	1,791	1,370	101	320		2,610	2,569	41	11,000	51
34	14,978					6,075	1,800	611	2,664		291,477	289,957	1,520	343,444	52
8	3,675					865	150	200	515		93,876	93,586	290	110,012	53
107	128,800					74,170	8,694	63,776	3,275	1,700	561,003	518,268	42,735	1,037,355	54
74	41,143			7	2,040	8,916	3,881	1,550	3,275	210	102,385	100,949	1,436	216,073	55
54	35,100	7	2,580	7	819	13,479	2,758	411	10,310		49,928	49,704	224	124,487	56
5	2,650			4	800	1,789	480	159	1,150		5,600	5,580	20	16,785	57
21	17,713			2	100	10,108	6,932	630	2,446		16,471	15,791	680	76,779	58
100	43,217	65	20,789	29	5,673	17,354	2,463	2,463	14,891	100	121,828	115,063	6,765	222,343	59
1,128	611,136	93	23,457	19	3,709	126,067	7,390	16,868	101,309		6,167,581	5,708,124	459,457	8,184,162	60

ice, artificial, 1; ironwork, architectural and ornamental, 1; jewelry, 1; lead, bar, pipe, and sheet, 1; lead, smelting and refining, 2; oil, not elsewhere specified, 1; optical goods, 1; pickles, preserves, and sauces, 1; rubber and elastic goods, 1; scales and balances, 1; shirts, 1; show cases, 2; silk and silk goods, 2; soup and candles, 2; taxidermy, 2; typewriter repairing, 1; vinegar and cider, 2; whips, 2; wirework, including wire rope and cable, 2; wood, turned and carved, 2; wool pulling, 2.

BY SPECIFIED INDUSTRIES: 1900.

2,404	\$1,452,935	485	\$132,679	88	\$15,639	\$479,034	\$107,785	\$32,588	\$291,397	\$47,864	\$2,743,674	\$2,662,250	\$81,424	\$3,109,409	1
5	2,980	7	2,080	1	100	2,644	1,744	116	784		38,125	38,100	25	53,593	2
15	6,813			4	660	3,432	2,232	108	967	125	12,825	12,042	233	29,479	3
42	22,693			2	290	5,267	3,663	264	1,335		23,330	21,786	1,553	97,921	4
11	5,344					1,913	1,703	61	149		9,394	9,094	300	32,351	5
98	43,275	40	8,580	2	753	5,017		1,077	3,940		156,046	152,772	3,274	225,986	6
44	25,380	31	8,781	2	301	15,911	4,374	1,280	9,757		101,055	97,416	3,639	212,951	7
91	49,533			1	125	32,208	1,220	1,329	4,709	24,950	109,829	109,237	592	219,737	8
31	14,580	1	155	1	78	2,201	1,050	259	892		19,472	18,303	669	50,053	9
520	354,366	1	300			5,310		5,230	80		347,810	341,226	6,584	733,347	10
130	87,324	33	11,157	2	333	21,077	11,496	1,061	8,395	125	99,699	98,260	1,439	313,283	11
38	19,196	34	21,823			5,173	2,875	4	2,294		33,545	33,270	275	82,450	12
5	1,606	75	19,214	4	847	17,767	10,641	411	6,715		166,050	162,482	3,568	321,962	13
23	11,415	1	300			1,243	1,008	75	100		893	698	195	6,305	14
127	31,322					3,217	1,926	218	1,073		32,871	32,846	25	62,769	15
2	1,750					2,921	732	1,042	1,147		51,920	46,274	5,646	180,587	16
30	16,777					485	240	25	170		900	900		6,200	17
4	1,800	4	1,032			3,364	1,520	103	1,741		17,315	17,105	210	42,732	18
83	36,734			1	249	854	372	42	440		3,836	3,652	184	11,680	19
69	44,137			4	800	21,790	1,200	225	16,115	4,250	55,490	49,440	15,050	143,320	20
2	1,115			1	200	1,187	912	23	252		2,376	2,151	225	8,460	22
27	15,800	5	1,480			4,907	1,920	453	2,584		43,075	42,905	170	93,700	23
28	21,366					6,573	340	340	1,893	3,500	26,200	25,670	530	63,615	24
49	19,390	35	13,463	6	1,100	7,072	5,940	364	1,668		60,592	60,395	197	106,880	25
16	13,480	5	1,500			9,347	1,330	562	7,453		61,593	60,873	720	132,699	26
80	48,856			1	225	1,614	620	219	775		25,055	24,950	105	51,500	27
4	1,920			5	1,004	8,469	3,117	137	5,115	100	44,240	44,120	120	133,994	28
16	8,246					868	480	111	277		2,125	2,100	25	7,473	29
3	1,600	5	1,358			4,543	2,770	366	1,407		12,612	12,492	120	46,176	30
						576	156	8	112	300	1,671	1,671		6,300	31

TABLE 7.—MANUFACTURES IN SALT LAKE CITY

MANUFACTURING AND MECHANICAL INDUSTRIES, AND CITIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and imple-ments.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
32 Plumbing, and gas and steam fitting....	20	\$68,648	\$800	\$100	\$9,188	\$53,560	81	5	\$4,260	87	\$47,176
33 Printing and publishing, book and job.	10	117,273			78,855	38,418	18	16	14,082	96	44,689
34 Printing and publishing, newspapers and periodicals.	16	515,694	45,500	52,845	152,529	265,820	16	55	50,849	313	186,192
35 Roofing and roofing materials.....	3	3,500	750		975	1,775	3			11	5,536
36 Saddlery and harness.....	9	58,035		6,000	3,570	48,465	13	9	5,850	49	25,026
37 Sewing machine repairing.....	3	2,150			800	1,350	2			4	1,956
38 Tinsmithing, coppersmithing, and sheet-iron working.	12	80,853	23,000	25,700	7,500	24,053	14	4	3,094	56	33,561
39 Tobacco, cigars and cigarettes.....	8	23,328	1,000	600	405	26,323	9			47	23,983
40 Trunks and valises.....	3	21,200	1,000		600	19,600	3	3	1,416	9	3,450
41 Watch, clock, and jewelry repairing....	21	21,615	2,250	1,750	8,175	9,440	22	2	841	16	12,318
42 All other industries ¹	51	954,995	75,244	86,403	559,286	234,062	44	36	29,475	332	154,754

¹ Embraces baking and yeast powders, 1; bookbinding and blank book making, 2; bottling, 1; boxes, cigar, 1; boxes, fancy and paper, 1; cars and general shop construction and repairs by street railroad companies, 2; cheese, butter, and condensed milk, factory product, 1; china decorating, 1; clothing, men's, factory product, 1; coffins, burial cases, and undertakers' goods, 1; engraving, steel, including plate printing, 1; flavoring extracts, 2; flouring and grist mill products, 2; fur goods, 1; furnishing goods, men's, 1; gas, illuminating and heating, 1; hosiery and knit goods, 2; ice, artificial, 1; ironwork, architectural and ornamental, 1;

TABLE 8.—MANUFACTURES IN CITIES

	350	\$3,103,267	\$292,073	\$455,328	\$1,175,771	\$1,180,095	414	131	\$89,817	1,167	\$555,290
1 Total for cities.....											
2 Brigham.....	33	104,944	14,663	23,805	25,142	36,334	36	10	2,283	74	27,709
3 Lehi City.....	16	1,267,570	49,375	155,095	613,460	429,640	20	10	19,660	73	103,804
4 Logan.....	63	279,952	62,125	46,400	58,830	112,597	76	25	13,430	131	62,081
5 Ogden.....	151	784,831	34,135	105,298	245,067	300,331	168	63	40,082	537	235,697
6 Park City.....	22	43,714	6,500	10,250	9,567	17,397	30			24	13,531
7 Provo City.....	57	515,496	47,275	82,280	109,010	276,981	66	22	13,637	264	105,408
8 Springville.....	17	156,760	8,000	27,250	114,695	6,815	18	1	225	14	6,360

BY SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
80	\$45,953	1	\$255	6	\$968	\$11,040	\$4,794	\$330	\$4,056	\$1,800	\$127,253	\$125,953	\$1,800	\$239,775	32
79	41,107	9	2,370	8	1,212	13,032	4,808	820	6,436	1,018	52,795	50,119	2,676	144,644	33
266	178,667	36	11,294	11	1,231	80,829	6,910	2,350	65,093	6,476	105,961	99,807	6,154	437,853	34
11	5,536					389	12	20	357		9,962	9,940	22	21,018	35
47	24,720	1	150	1	156	5,103	3,022	676	1,465		71,452	71,302	150	122,393	36
3	1,800			1	156	1,715	1,310	95	310		2,312	2,292	20	9,500	37
51	31,577			5	1,984	5,986	2,848	1,052	1,876	210	72,418	71,739	629	154,625	38
36	26,803	5	1,500	6	680	9,977	1,884	304	7,789		38,602	38,527	75	93,895	39
5	2,650			4	800	1,789	480	159	1,150		5,600	5,580	20	16,785	40
14	12,718			2	100	5,933	3,786	341	1,706		8,179	7,932	247	45,644	41
219	127,521	106	25,937	7	1,296	43,371	11,345	6,244	21,782	4,000	579,296	566,360	12,936	953,612	42

jewelry, 1; lead, bar, pipe, and sheet, 1; marble and stone work, 1; masonry, brick and stone, 1; mattresses and spring beds, 2; oil, not elsewhere specified, 1; optical goods, 1; paper hanging, 1; pottery, terra cotta, and fire-clay products, 2; rubber and elastic goods, 1; salt, 1; scales and balances, 1; shirts, 1; show cases, 2; silk and silk goods, 1; slaughtering and meat packing, wholesale, 1; slaughtering, wholesale, not including meat packing, 1; soap and candles, 1; taxidermy, 2; vinegar and cider, 1; whips, 1; wood, turned and carved, 2.

UNDER 20,000 IN POPULATION: 1900.

889	\$483,559	245	\$57,990	83	\$13,741	\$179,300	\$32,192	\$19,824	\$126,156	\$1,129	\$1,552,183	\$1,476,689	\$75,494	\$2,980,276	1
61	25,775	9	1,466	4	468	4,650	593	598	3,459		165,142	103,383	1,759	181,701	2
70	103,214	2	450	1	140	53,680	576	4,896	48,208		368,847	332,198	36,649	721,981	3
105	48,373	65	12,424	11	1,279	14,453	4,051	2,869	7,222	308	218,491	214,651	3,840	375,055	4
402	209,883	102	21,560	33	4,454	73,665	18,965	6,436	47,453	311	512,753	523,896	13,857	1,102,765	5
20	12,451	2	754	2	326	3,952	1,748	369	1,825	10	23,264	22,185	1,079	72,172	6
169	77,542	63	20,732	32	7,074	23,931	3,056	3,332	17,543		216,444	204,766	11,678	431,120	7
12	6,316	2	544			4,969	3,200	1,324	145		77,242	70,610	6,632	95,482	8

CENSUS BULLETIN.

No. 108.

WASHINGTON, D. C.

November 4, 1901.

AGRICULTURE.

RHODE ISLAND.

HON. WILLIAM R. MERRIAM,
Director of the Census.

SIR: I have the honor to transmit herewith, for publication in bulletin form, the statistics of agriculture for the state of Rhode Island, taken in accordance with the provisions of section 7 of the act of March 3, 1899. This section requires that—

The schedules relating to agriculture shall comprehend the following topics: Name of occupant of each farm, color of occupant, tenure, acreage, value of farm and improvements, acreage of different products, quantity and value of products, and number and value of live stock. All questions as to quantity and value of crops shall relate to the year ending December thirty-first next preceding the enumeration.

The farm lands of Rhode Island have an area of 712 square miles, or 67.6 per cent of the total land surface of 1,053 square miles. Narragansett Bay divides the state from north to south and furnishes the greater part of a coast line 245 miles long. The coast is nearly everywhere bordered by sand beaches and extensive salt marshes, thus greatly reducing the area available for cultivation.

Newport and Bristol counties, comprising the islands and peninsulas east of Narragansett Bay, have a total land surface of 142 square miles, of which 88 square miles are included in farms. These two counties contain the largest relative percentages of improved land, and have the most fertile soil. The land west of the bay is generally hilly, especially in the north. There are numerous streams, but owing to their small size there is little alluvial soil. Most of the land is slaty and more suitable for grazing than for cultivation. About one-fourth of the total area is woodland.

The value of the 5,498 farms of the state is \$23,125,260, of which \$9,703,490, or 42 per cent, represents the value of buildings, and \$13,421,770, or 58 per cent, the value of land and improvements exclusive of buildings. The average value of land per acre, exclusive of buildings, ranges from \$14.88 in Washington county to \$68.23 in Bristol county. For the state the average value is \$29.46 per acre.

The value of the farm products of 1899 was \$6,333,864, a gain since 1889 of \$2,115,564, or 50.2 per cent. If the value of products fed to live stock, \$969,140, be deducted from the value of all farm products, there remains a gross income of \$5,364,724, equal to 19.9 per

cent of the total capital invested in farm property. As no reports of expenditures for taxes, interest, insurance, feed for stock, and similar items have been obtained by any census, no statement of net farm income can be given.

The term "Farm property," as used in the text and tables of this bulletin, includes the values of land, improvements and buildings, implements and machinery, and live stock. This valuation, June 1, 1900, was \$26,989,189, or 7.2 per cent greater than on the corresponding date in 1890.

The receipts from animal products in 1899, amounting in the aggregate to \$3,292,295, constitute 61.4 per cent of the total value of products not fed to live stock, referred to elsewhere as the "gross farm income." Dairy products had a value of \$1,923,707, or 35.9 per cent of the gross income of farms, and poultry and eggs yielded an income of \$1,055,635. Market gardening has in the past twenty years advanced to a leading position. The area used in 1899 in the production of vegetables, including potatoes, sweet potatoes, and onions, was 10,982 acres, and the value of products obtained therefrom was \$992,467. Hay and forage and the cereals are no longer the sources of any considerable direct income, their cultivation being almost wholly incident to the dairy and live-stock industries. This is shown by the fact that in 1899 farm products aggregating 76.2 per cent of the year's production of hay and grain were fed to live stock on the farms of the producers. The area devoted to cereals decreased from 19,575 acres in 1879 to 10,552 acres in 1899, and the total production from 564,580 bushels to 350,110 bushels.

The gradual abandonment of cereal production has been attended by a corresponding growth in other branches of agriculture, notably dairying, poultry raising, the culture of small fruits, and general market gardening. The area utilized in the production of vegetables was only slightly larger than that devoted to cereals, but the products had a value more than five times as great, the average income per acre from vegetables having been \$90.37, and from cereals, \$17.97.

Very respectfully,

L. G. Powers.

Chief Statistician for Agriculture.

AGRICULTURE IN RHODE ISLAND.

GENERAL STATISTICS.

NUMBER AND SIZE OF FARMS.

The 5,498 farms of Rhode Island comprise 455,602 acres, or 67.6 per cent of the total land surface of the state. The following table gives by decades, since 1850, the number of farms reported, the total and average acreage, and the per cent of farm land improved:

TABLE 1.—FARMS AND FARM ACREAGE: 1850 TO 1900.

CENSUS YEAR.	Number of farms.	NUMBER OF ACRES IN FARMS.				Per cent of farm land improved.
		Total.	Improved.	Un-improved.	Average	
1900.....	5,498	455,602	187,354	268,248	83	41.1
1890.....	5,500	469,281	274,491	194,790	85	58.5
1880.....	6,216	514,813	298,466	216,327	83	58.0
1870.....	5,368	502,308	289,030	213,278	94	57.5
1860.....	5,406	521,224	336,128	186,096	96	64.3
1850.....	5,385	553,998	356,487	197,451	108	64.4

During the past fifty years the number of farms has remained practically the same, being, in 1900, 113 more than in 1850 and 2 less than in 1890. In the same period the number of acres included in farms has decreased 17.8 per cent. As this decrease has been at a fairly constant rate, it is probable that it is due largely to the withdrawal from farms of land for town lots and factory sites. The per cent of improved farm land decreased from 64.4 in 1850 to 41.1 in 1900, the largest relative decrease having taken place in the last decade, in which period the per cent fell from 58.5 to 41.1. It is known that a considerable acreage which, ten years before, was classed as improved, was reported in 1900 as unimproved. It is probable that a large portion of this area was once devoted to the production of hay and cereals. Not being of a character to yield profitable crops of fruits or vegetables, this land was partially or wholly abandoned as soon as western competition, brought about by cheapened transportation, rendered

the growing of cereals unprofitable. The operators transferred their attention to small areas of the most fertile soil, and by dairying, poultry raising, and market gardening, increased both the quantity and the value of their annual products.

FARM PROPERTY AND PRODUCTS.

The values of farm land and improvements, implements and machinery, live stock, and farm products are given in Table 2 for each census year, beginning with 1850.

TABLE 2.—VALUES OF FARM PROPERTY AND PRODUCTS: 1850 TO 1900.

CENSUS YEAR.	Total value of farm property.	Land, improvements, and buildings.	Implements and machinery.	Live stock.	Farm products. ¹
1900.....	\$26,089,189	\$23,125,260	\$1,270,270	\$2,593,659	\$5,333,864
1890.....	25,179,479	21,873,479	941,030	2,364,970	4,213,300
1880.....	29,039,046	25,882,079	602,825	2,254,142	3,670,135
1870 ²	25,496,846	21,674,908	739,246	3,195,132	\$4,761,163
1860.....	22,179,388	19,550,553	586,791	2,042,044	.....
1850.....	19,100,640	17,070,802	497,201	1,532,637	.....

¹ For year preceding that designated.

² Values for 1870 were reported in depreciated currency. To reduce to specie basis of other figures they must be diminished by one-fifth.

³ Includes betterments and additions to live stock.

Since 1850 the total farm wealth of Rhode Island has increased \$7,888,549, and in the last decade, \$1,809,710. Of the latter amount, \$1,251,781, or 69.2 per cent, represents the increase in the value of land, improvements, and buildings; \$329,240, or 18.2 per cent, that of implements and machinery; and \$228,689, or 12.6 per cent, that of live stock.

COUNTY STATISTICS OF AGRICULTURE.

Table 3 gives an exhibit of general agricultural statistics by counties.

TABLE 3.—NUMBER AND AREA OF FARMS AND VALUES OF FARM PROPERTY, JUNE 1, 1900, VALUE OF PRODUCTS OF 1899 NOT FED TO LIVE STOCK, AND EXPENDITURES IN 1899 FOR LABOR AND FERTILIZERS, BY COUNTIES.

COUNTIES.	NUMBER OF FARMS.		ACRES IN FARMS.		VALUES OF FARM PROPERTY.				Value of products not fed to live stock.	EXPENDITURES.	
	Total.	With buildings.	Total.	Improved.	Land and improvements (except buildings).	Buildings.	Implements and machinery.	Live stock.		Labor.	Fertilizers.
The State.....	5,498	5,401	455,602	187,354	\$13,421,770	\$9,703,490	\$1,270,270	\$2,593,659	\$5,364,724	\$1,032,360	\$264,140
Bristol.....	205	201	7,585	5,313	517,520	488,180	50,910	96,349	229,048	32,420	8,430
Kent.....	774	753	71,986	24,255	1,323,230	1,291,170	153,180	300,226	607,002	99,920	23,640
Newport.....	940	918	48,652	36,431	3,070,520	2,108,660	225,760	560,751	1,156,279	186,540	76,080
Providence.....	2,287	2,248	167,437	61,545	6,129,050	3,919,790	618,540	1,097,777	2,475,979	559,729	114,540
Washington.....	1,292	1,281	159,992	59,810	2,381,450	1,900,690	221,930	585,656	896,416	153,760	41,450

Since 1890 the number of farms has decreased in every county except Providence, in which county there was an increase of 288. Providence and Washington counties report increases in the number of acres in farms of 2.9 per cent and 1.7 per cent, respectively. The remaining three counties show decreases in farm acreage as follows: Bristol, 30.1 per cent; Kent, 17.1 per cent; Newport, 5.7 per cent.

East of Narragansett Bay, where the land is level and largely devoted to market gardening and the cultivation of small fruits, the farms are comparatively small (the average area being 49.1 acres) and the per cent of improved land is comparatively high, being 79.1 per cent in 1890, and 74.2 in 1900. The slight decrease noted for the decade was limited almost wholly to large farms having considerable areas of pasture land. West of the bay, where the surface is broken and the dairy and live-stock industries are more fully developed, the average size of the farms is 91.7 acres. Much wild grazing land is included in the farms of this part of the state, hence the per cent of improved land is relatively small, being 55.3 in 1890 and but 36.5 in 1900. The much larger relative decrease in ten years in the area of improved land west of the bay indicates that the size of farms, and the character of the industries to which they are devoted, determine, in some measure, the extent of the general decrease in the area of improved land, to which attention has already been called.

The value of implements and machinery in Washington county is the same as in 1890. In each of the other counties there has been an increase, slight in Bristol and Kent, but very marked in Newport and Providence. In the last-named county the valuation nearly doubled, the increase amounting to 74.8 per cent of that for the state. The two counties reporting the largest increases in value of implements were the only ones to show increased valuations for live stock. The relatively rapid growth in dairying and market gardening in both of these counties is doubtless an important factor in explaining the large increase in the value of implements and live stock.

The total values of all farm products increased as follows: Bristol, 14.8 per cent; Washington, 26.6; Kent, 27.9; Providence, 56.7; and Newport, 93.3. The increase in the two latter counties constituted 79.5 per cent of that for the state, and is in keeping with the increases in values of implements and live stock shown for those counties.

The farmers of Bristol and Kent counties expended less for fertilizers in 1899 than in 1889. The other three counties each report a marked increase, that for Newport amounting to 49.0 per cent, and for Providence, 111.1 per cent. It appears that the counties reporting the largest relative increases in expenditures for this and similar items also show the largest relative gains in income from farm products.

NUMBER OF FARMS, CLASSIFIED BY RACE OF FARMER
AND BY TENURE.

Table 4 gives a comparative exhibit of farm tenure for 1880, 1890, and 1900. In Table 5 the tenure of farms for 1900 is given by race of farmer. The farms classified in Table 4 as "Farms operated by owners," are subdivided in Table 5 into groups, designated as "Owners," "Part owners," "Owners and tenants," and "Managers." These terms denote, respectively: (1) Farms operated by individuals who own all the land they cultivate; (2) farms operated by individuals who own a part of the land and rent the remainder from others; (3) farms operated under the joint direction and by the united labor of two or more individuals, one owning the farm or a part of it, the other, or others, owning no part, but receiving for supervision or labor a share of the products; and (4) farms operated by individuals who receive for their supervision and other services a fixed salary from the owners.

TABLE 4.—NUMBER AND PER CENT OF FARMS OF SPECIFIED TENURES: 1880 TO 1900.

CENSUS YEAR.	Total number of farms.	NUMBER OF FARMS OPERATED BY—			PER CENT OF FARMS OPERATED BY—		
		Owners.	Cash tenants.	Share tenants.	Owners.	Cash tenants.	Share tenants.
1900	5,498	4,390	1,045	63	79.9	19.0	1.1
1890	5,500	4,470	912	118	81.8	16.6	2.1
1880	6,216	4,980	939	247	80.1	15.9	4.0

TABLE 5.—NUMBER OF FARMS, CLASSIFIED BY RACE OF FARMER AND BY TENURE, JUNE 1, 1900.

RACE.	Total number of farms.	Owners.	Part owners.	Owners and tenants.	Managers.	Cash tenants.	Share tenants.
The State....	5,498	3,958	212	12	203	1,045	63
White	5,470	3,942	212	12	207	1,034	63
Colored.....	28	16			1	11	

Between 1880 and 1900 the number of farms operated by owners decreased 590, or 11.8 per cent, and the number operated by tenants, 128, or 10.4 per cent. There was, however, no great change in the relative number of owners and tenants, as the percentage of owners in 1880 was 80.1, and in 1900, 79.9, a variation of only 0.2 per cent. The decrease in the number of tenant-operated farms was entirely in the share-tenant class, as the number of cash tenants was 56 greater in 1900 than in 1880.* In 1880, 20 per cent of all tenants were share tenants; in 1890, 11.5 per cent, and in 1900, but 5.7 per cent. This somewhat remarkable change in the relative number of cash tenants and share tenants is the result of a growing sentiment on the part of both landlord and tenant in favor of the cash-payment system, and

at the same time indicates greater independence and financial responsibility on the part of the tenant class.

In Table 4, 4,390 farms are classified as operated by "Owners" in 1900. Table 5 shows that 3,958 of these farms were owned by the operators; 212 were farms of which in each case a part was owned and a part leased; 12 were operated jointly by owners and tenants; and 208 were conducted by salaried managers. Of the 28 colored farmers of the state, 16 were owners, 11 were cash tenants, and 1 was a salaried manager.

OWNERSHIP OF RENTED FARMS.

The ownership of 1,019 of the 1,108 rented farms was ascertained by the enumerators. The titles to the 1,019 farms are vested in 963 owners, an average of 106 farms to every 100 owners. Of the 963 owners, 923 possess 1 farm each. The others hold titles to from 2 to 10 farms each, as follows: 34, 2; 3, 3; 1, 4; 1, 5; and 1, 10. Eight hundred and ninety-one of the owners, possessing 947 farms, reside in Rhode Island. The owners of 838 of these farms reside in the counties in which their farms are located. Of the nonresident owners, 63 reside in the North Atlantic states; 3 in the North Central states; 2 in the South Central states; 2 in the Western states; 1 resides in a South Atlantic state; and 1 in a foreign country. None of these non-residents possesses more than one rented farm, and the average value of their holdings is \$4,515. The small incomes that can be derived from such farms make it certain that there are very few nonresident landlords deriving their main support from rented farms in Rhode Island.

Of the owners residing in the state, 4,390 own farms which they operate in person, or through managers, and 891 own farms cultivated by tenants. Probably some of this latter number are included in the former, being operators owning farms in addition to the ones they personally conduct. Not counting the 89 rented farms whose owners were not ascertained, there were in Rhode Island somewhat less than 5,281 owners. Of this number, 40, or about eight-tenths of 1 per cent, possess more than one farm, and 6 of these, or about one in a thousand of the total number of owners, own more than two farms each.

There were 17 rented farms, each of which was worth \$25,000 or over, with an aggregate value of \$1,040,500, and an average of \$61,206; 53, valued at between \$10,000 and \$25,000 each, with an aggregate value of \$649,500, and an average of \$12,254; and 1,038, the average value of which was only \$3,311. It can be seen from the foregoing that only a small number of farm owners derive their support wholly or mainly from rentals, and that the number who are able to live in luxury therefrom is insignificant. The fact that 82.2 per cent of the 1,019 rented farms, with owners reported, are located

in the same county with their owners, indicates that there is no great number of farms owned by individuals or corporations who do not deal directly with their tenants but collect their rentals through agents.

FARMS AND FARM PROPERTY BY RACE OF FARMER AND BY TENURE.

Table 6 gives, by race of farmer and by tenure, the number and area of farms and the value of farm property. Table 7 presents a classification, by race and tenure, of the average values of the several forms of farm property, June 1, 1900, of the products of 1899 not fed to live stock, and of the per cent of the value of those products to the total value of farm property.

TABLE 6.—NUMBER AND AREA OF FARMS, AND VALUE OF FARM PROPERTY, JUNE 1, 1900, CLASSIFIED BY RACE OF FARMER AND BY TENURE, WITH PERCENTAGES.

RACE OF FARMER, AND TENURE.	Number of farms.	NUMBER OF ACRES IN FARMS.			VALUE OF FARM PROPERTY.	
		Average.	Total.	Per cent.	Total.	Per cent.
The State.....	5,498	82.9	455,602	100.0	\$26,989,189	100.0
White farmers.....	5,470	82.9	453,518	99.5	26,923,739	99.8
Colored farmers.....	28	74.4	2,084	0.5	65,450	0.2
Owners.....	3,958	78.7	311,519	68.4	15,523,510	57.5
Part owners.....	212	105.6	22,378	4.9	2,356,700	8.7
Owners and tenants.....	12	121.4	1,457	0.3	60,410	0.3
Managers.....	208	138.0	28,700	6.3	3,168,870	11.7
Cash tenants.....	1,045	82.1	85,826	18.8	5,002,559	20.8
Share tenants.....	63	90.8	5,722	1.3	265,140	1.0

TABLE 7.—AVERAGE VALUES OF FARM PROPERTY AND PRODUCTS, CLASSIFIED BY RACE OF FARMER AND BY TENURE.

RACE OF FARMER, AND TENURE.	AVERAGE VALUES PER FARM OF—					Per cent of products not fed, to value of farm property.
	Farm property, June 1, 1900.				Products of 1899 not fed to live stock.	
	Land and improvements (except buildings).	Buildings.	Implements and machinery.	Live stock.		
The State.....	\$2,441	\$1,705	\$231	\$472	\$976	19.9
White farmers.....	2,447	1,770	232	473	979	19.9
Colored farmers.....	1,327	712	120	179	352	15.1
Owners.....	1,696	1,603	205	420	878	22.4
Part owners.....	6,689	3,034	411	933	2,071	18.6
Owners and tenants.....	1,983	2,342	371	838	2,340	42.4
Managers.....	9,005	4,594	610	1,026	1,952	12.8
Cash tenants.....	3,126	1,567	215	453	927	17.3
Share tenants.....	2,022	1,522	225	440	772	18.3

The value of the farms owned by negroes, including implements, machinery, and live stock, together with the value of the implements, machinery, and live stock upon the farms which other negroes operate as tenants, is \$26,460. This amount is probably somewhat in ex-

cess of the actual wealth of the negro farmers of Rhode Island.

The farms of managers are larger, and more valuable per farm and per acre, than the farms of any other group classified by tenure. They also stand first in the average value of all forms of farm property, but report the smallest percentage of gross income upon total investments. The relatively large per cent of products not fed, to value of farm property, reported for farms of "Owners and tenants," is due to the fact that several farms of this class were very favorably situated dairy, poultry, or vegetable farms, the produce of which was sold in city markets at prices higher than those realized by the average farmer.

FARMS CLASSIFIED BY AREA.

Tables 8 and 9 give, for farms classified by area, the facts shown in Tables 6 and 7 for farms by race and by tenure.

TABLE 8.—NUMBER AND ACREAGE OF FARMS, AND VALUE OF FARM PROPERTY, JUNE 1, 1900, CLASSIFIED BY AREA, WITH PERCENTAGES.

AREA.	Number of farms.	NUMBER OF ACRES IN FARMS.			VALUE OF FARM PROPERTY.	
		Average.	Total.	Per cent.	Total.	Per cent.
The State.....	5,498	82.9	455,602	100.0	\$23,983,189	100.0
Under 3 acres.....	327	7.3	413	0.1	949,650	3.5
3 to 9 acres.....	507	6.8	2,925	0.6	1,683,660	6.2
10 to 19 acres.....	378	13.9	8,037	1.8	1,783,549	6.6
20 to 49 acres.....	1,169	38.0	33,550	8.5	5,261,380	19.5
50 to 99 acres.....	1,256	69.3	87,693	19.1	5,754,130	21.3
100 to 174 acres.....	1,049	121.6	130,630	28.7	5,372,640	21.3
175 to 259 acres.....	358	204.0	73,644	16.0	2,473,650	9.2
260 to 499 acres.....	192	329.9	63,343	13.0	2,035,250	7.7
500 to 999 acres.....	45	435.8	23,410	6.3	573,130	2.2
1,000 acres and over..	17	1,346.3	22,895	5.0	641,400	2.0

TABLE 9.—AVERAGE VALUES OF FARM PROPERTY AND PRODUCTS, CLASSIFIED BY AREA.

AREA.	AVERAGE VALUES PER FARM OF—					Per cent of products not fed, to value of farm property.
	Farm property, June 1, 1900.				Products of 1899 not fed to live stock.	
	Land and improvements (except buildings).	Buildings.	Implements and machinery.	Live stock.		
The State.....	\$2,441	\$1,705	\$231	\$472	\$976	19.9
Under 3 acres.....	1,200	1,417	86	111	699	24.1
3 to 9 acres.....	1,394	1,617	123	187	551	13.6
10 to 19 acres.....	1,307	1,330	145	252	648	20.8
20 to 49 acres.....	2,257	1,651	216	377	784	17.4
50 to 99 acres.....	2,229	1,625	233	494	1,002	21.9
100 to 174 acres.....	2,882	1,835	273	608	1,076	19.2
175 to 259 acres.....	3,678	2,251	350	730	1,329	19.2
260 to 499 acres.....	6,142	3,018	480	1,221	1,990	18.3
500 to 999 acres.....	6,740	4,051	636	1,444	2,405	18.7
1,000 acres and over..	13,485	8,971	1,079	3,312	12,674	39.8

The average values given in Table 9, except those of buildings and products, are lowest for farms containing less than 3 acres, and rise in almost unbroken series to those containing 1,000 acres and over. The average values shown for the group of farms containing 1,000 acres and over are disproportionately high, owing to the fact that the group includes an exceptionally large and intensively cultivated vegetable and seed farm.

The average gross incomes per acre for the various groups classified by area are as follows: Farms under 3 acres, \$553.27; 3 to 9 acres, \$95.32; 10 to 19 acres, \$46.23; 20 to 49 acres, \$23.79; 50 to 99 acres, \$14.45; 100 to 174 acres, \$8.63; 175 to 259 acres, \$6.52; 260 to 499 acres, \$6.03; 500 to 999 acres, \$3.78; and 1,000 acres and over, \$9.41.

The very large gross income per acre shown for farms under 3 acres is explained by the fact that this group includes 75 florists' establishments and 29 city dairies, involving in their operation great relative expenditures for labor, fertilizers, and feed for stock, which expenses are not deducted in computing the gross income.

FARMS CLASSIFIED BY PRINCIPAL SOURCE OF INCOME.

Tables 10 and 11 present the leading facts concerning the number, area, value, and average value of farms classified by principal source of income. If for any farm 40 per cent of the products not fed to live stock consists of hay and grain, the farm is designated a hay and grain farm. Should 40 per cent of the products consist of vegetables, the farm is designated a vegetable farm. The farms of the other groups are classified in accordance with the same general principle. Farms with no income in 1899 are classified according to the agricultural operations upon other farms in the same locality.

TABLE 10.—NUMBER AND AREA OF FARMS, AND VALUE OF FARM PROPERTY, JUNE 1, 1900, CLASSIFIED BY PRINCIPAL SOURCE OF INCOME, WITH PERCENTAGES.

PRINCIPAL SOURCE OF INCOME.	Number of farms.	NUMBER OF ACRES IN FARMS.			VALUE OF FARM PROPERTY.	
		Average.	Total.	Per cent.	Total.	Per cent.
The State.....	5,498	82.9	455,602	100.0	\$26,989,189	100.0
Hay and grain.....	298	101.0	30,106	6.6	1,386,830	5.1
Vegetables.....	571	47.1	26,919	5.9	3,340,630	12.4
Fruit.....	66	68.6	4,530	1.6	269,880	1.0
Live stock.....	2,188	68.2	149,146	32.7	7,195,490	26.7
Dairy produce.....	1,470	102.7	151,650	33.3	10,597,939	39.3
Flowers and plants.....	108	6.8	731	0.2	782,115	2.9
Nursery products.....	9	28.7	253	0.1	190,160	0.7
Miscellaneous.....	788	117.1	92,262	20.2	3,226,145	11.9

TABLE 11.—AVERAGE VALUES OF FARM PROPERTY AND PRODUCTS, CLASSIFIED BY PRINCIPAL SOURCE OF INCOME.

PRINCIPAL SOURCE OF INCOME.	AVERAGE VALUES PER FARM OF—					Per cent of products not fed, to value of farm property.
	Farm property, June 1, 1900.				Products of 1899 not fed to live stock.	
	Land and improvements (except buildings).	Buildings.	Implements and machinery.	Live stock.		
The State.....	\$2,441	\$1,765	\$281	\$472	\$976	19.9
Hay and grain	2,504	1,719	215	216	442	9.5
Vegetables	3,246	1,954	268	387	1,255	21.5
Fruit	1,792	2,010	140	147	581	14.2
Live stock	1,351	1,406	169	362	616	18.7
Dairy produce.....	3,854	2,207	325	328	1,492	20.7
Flowers and plants.....	3,835	3,147	215	45	2,738	37.8
Nursery products.....	17,256	3,333	356	184	4,674	22.1
Miscellaneous	1,919	1,589	219	307	760	18.6

A large number of the 2,188 farms which derive their principal source of income from live stock are poultry farms of less than 20 acres each. Many of the larger farms of the same group contain much cheap grazing land and have but limited areas under cultivation. These facts explain the low average values shown in Table 11 for farms of this class.

For the several classes of farms, the average values per acre of products not fed to live stock are: Flower and plant, \$404.62; nursery stock, \$163.06; vegetable, \$26.50; dairy produce, \$14.50; live stock, \$9.02; fruit, \$8.46; miscellaneous, \$6.49; hay and grain, \$4.38. A comparison with the average areas given in Table 10 shows that the gross income per acre is largest for the class of farms with the smallest average area, and, in general, decreases as the average size of farms increases. It should be noted, however, that the highly remunerative small farms are devoted to those branches of agriculture which involve the greatest relative expense.

FARMS CLASSIFIED BY REPORTED VALUE OF PRODUCTS NOT FED TO LIVE STOCK.

Tables 12 and 13 present data relating to farms classified by the reported values of products not fed to live stock.

TABLE 12.—NUMBER AND AREA OF FARMS, AND VALUE OF FARM PROPERTY, JUNE 1, 1900, CLASSIFIED BY REPORTED VALUE OF PRODUCTS NOT FED TO LIVE STOCK, WITH PERCENTAGES.

VALUE OF PRODUCTS NOT FED TO LIVE STOCK.	Number of farms.	NUMBER OF ACRES IN FARMS.			VALUE OF FARM PROPERTY.	
		Average.	Total.	Per cent.	Total.	Per cent.
The State.....	5,498	82.9	455,602	100.0	\$26,989,189	100.0
\$0.....	22	44.8	986	0.2	122,490	0.4
\$1 to \$49.....	114	36.5	4,168	0.9	233,120	0.9
\$50 to \$99.....	230	41.4	9,524	2.1	481,259	1.8
\$100 to \$249.....	907	49.6	49,410	10.9	2,213,720	8.2
\$250 to \$499.....	1,330	64.7	86,097	18.9	3,706,170	13.7
\$500 to \$999.....	1,263	88.8	112,125	24.6	5,396,050	20.0
\$1,000 to \$2,499.....	1,093	115.9	126,628	27.8	7,679,920	28.5
\$2,500 and over.....	449	148.5	66,659	14.6	7,156,460	26.5

TABLE 13.—AVERAGE VALUES OF FARM PROPERTY AND PRODUCTS, CLASSIFIED BY REPORTED VALUE OF PRODUCTS NOT FED TO LIVE STOCK.

VALUE OF PRODUCTS NOT FED TO LIVE STOCK.	AVERAGE VALUES PER FARM OF—					Per cent of products not fed, to value of farm property.
	Farm property, June 1, 1900.				Products of 1899 not fed to live stock.	
	Land and improvements (except buildings).	Buildings.	Implements and machinery.	Live stock.		
The State.....	\$2,441	\$1,765	\$281	\$472	\$976	19.9
\$0.....	2,150	3,171	166	81	.....	.....
\$1 to \$49.....	831	1,053	75	36	43	2.1
\$50 to \$99.....	944	970	78	100	76	3.6
\$100 to \$249.....	986	992	94	148	167	7.5
\$250 to \$499.....	1,160	1,241	133	253	358	12.8
\$500 to \$999.....	2,008	1,649	209	406	690	16.1
\$1,000 to \$2,499.....	3,506	2,406	356	753	1,524	21.7
\$2,500 and over.....	9,283	4,318	705	1,633	4,810	30.2

Of the farms of the state, 22, ranging in area from 3 to 259 acres, report no incomes. The average values of the land and improvements, buildings, and implements and machinery of these farms are relatively very high, exceeding in the first two items those of farms with reported incomes from \$500 to \$999. In all probability many of them are summer homes or country estates held for pleasure and not for the profit to be derived from operation.

The 114 farms with reported incomes of less than \$50 vary in area from less than 3 acres to 259 acres. Some farms of this class also are the country estates of business and professional men in the cities. Others are farms partially abandoned in 1899, from which a small amount of hay was gathered, and on which but a few acres, at the most, were cultivated. Some had changed owners or tenants, and the farmers in charge, June 1, 1900, were unable to give any definite information concerning the products of the preceding year. To this extent, the reports fall short of giving a complete exhibit of the farm incomes in 1899.

Of the 449 farms reporting an income of over \$2,500 each, 25 had areas of less than 3 acres; 82, from 3 to 49 acres; 120, from 50 to 99 acres; 200, from 100 to 499 acres; 12, from 500 to 999 acres; and 10 had areas of 1,000 acres or over. The fact that of the 17 farms containing over 1,000 acres each, 5 reported incomes of from \$1,000 to \$2,499, and 10, incomes of over \$2,500 each, shows that the largest farms of the state are not simply large tracts of land too poor to permit of profitable farming in small areas, but are productive in fair proportion to their size. The percentages of gross income upon investments form a continuous upward series from the group with the smallest to that having the largest average income.

CLASSIFICATION, NUMBER, AND VALUE OF LIVE STOCK.

At the request of the various live-stock associations of the country, a new classification of domestic animals was adopted for the census of 1900. Neat cattle are

grouped by age in accordance with their present and prospective relations to the dairy industry and the supply of meat products. Horses and mules are classified by age, and neat cattle and sheep by age and sex. The new classification permits close comparison with the figures published in preceding census reports.

Table 14 gives the number, value, and average value of specified domestic animals on farms, the number of such animals in barns and inclosures not on farms, and statistics concerning poultry and bees.

TABLE 14.—NUMBER AND VALUE OF DOMESTIC ANIMALS, FOWLS, AND BEES: JUNE 1, 1900.

LIVE STOCK.	Age in years.	ON FARMS.			NOT ON FARMS.
		Number.	Value.	Average value.	
Calves	Under 1	5,338	\$45,537	\$8.53	106
Steers	1 and under 2	149	2,094	17.48	5
Steers	2 and under 3	135	4,876	36.12	5
Steers	3 and over	727	40,805	56.18	13
Bulls	1 and over	831	23,559	28.35	3
Heifers	1 and under 2	3,815	73,276	19.21	127
Cows kept for milk	2 and over	23,660	937,137	39.61	1,367
Cows and heifers not kept for milk.	2 and over	1,379	38,003	27.50	17
Colts	Under 1	91	4,740	52.09	18
Horses	1 and under 2	179	13,779	76.98	40
Horses	2 and over	11,120	962,429	85.55	19,923
Mule colts	Under 1	2	65	32.50	0
Mules	1 and under 2	36	2,770	76.94	9
Mules	2 and over	5	210	42.00	1
Asses and burros	All ages	4,578	15,154	3.31	31
Lambs	Under 1	5,901	22,575	3.83	39
Sheep (ewes)	1 and over	728	3,553	4.88	5
Sheep (rams and wethers)	1 and over				
Swine	All ages	11,568	90,614	7.87	1,360
Goats	All ages	23	131	5.70	75
Fowls: ¹					
Chickens ²		500,618			
Turkeys		4,664			
Geese		6,335	305,047		
Ducks		8,957			
Bees (swarms of)		1,681	6,795		
Value of all live stock.			2,593,659		

¹ The number reported is of fowls over 8 months old. The value is of all, old and young.

² Including Guinea fowls.

The comparatively high value of steers 3 years old and over is the result of including in this class the high-priced working oxen still used in certain districts of the state. The number so employed is continually decreasing. In 1900 the number of all steers over 2 years was only 862, while the number of working oxen reported in 1890 was 2,609; in 1880, 3,523; in 1870, 5,821; in 1860, 7,857; and in 1850, 8,189. The total value of all live stock on farms, June 1, 1900, was \$2,593,659. Of this amount the value of horses constituted 37.8 per cent; dairy cows, 36.1 per cent; other neat cattle, 8.8 per cent; poultry, 11.8 per cent; swine, 3.5 per cent; sheep, 1.6 per cent; and all other live stock, 0.4 per cent. No report was secured of the value of animals not on farms, but it is probable that such animals have somewhat higher average values than those on farms. Allowing the same averages, the total value of all live stock in the state, exclusive of poultry and bees not on farms, is substantially \$4,393,000.

CHANGES IN THE LIVE-STOCK INDUSTRY IN FIFTY YEARS.

Table 15 shows the progress of the live-stock industry since 1850. In the figures for "Other neat cattle" in 1900, the number of calves is included, but it is uncertain whether any calves were included in preceding census reports under this designation.

TABLE 15.—NUMBER OF DAIRY COWS, OTHER NEAT CATTLE, HORSES, MULES AND ASSES, SHEEP, AND SWINE: 1850 TO 1900.

CENSUS YEAR.	Dairy cows.	Other neat cattle.	Horses.	Mules and asses.	Sheep. ¹	Swine.
1900	23,660	12,374	11,390	43	6,629	11,503
1890	23,943	10,834	9,864	51	11,400	12,055
1880	21,460	14,124	9,661	46	17,211	14,121
1870	18,806	15,559	7,770	43	23,938	14,607
1860	19,700	19,405	7,121	10	32,624	17,478
1850	18,698	17,554	6,163	1	44,296	19,509

¹ Lambs not included.

It appears that there was a decrease during the last decade in the number of dairy cows and an increase in the number of "Other neat cattle" reported. As both of these changes are opposed to the general movement for the preceding forty years, and as the causes operating to produce this movement have been in nowise modified since 1890, they are believed to be more apparent than real. It is doubtless true that a large number of the 1,379 "Cows and heifers not kept for milk," included in the above table with "Other neat cattle," were in reality dairy cows that were dry at the time of enumeration. The number of calves reported in 1900 was 5,338. If calves were not included in the reports for previous census years, the decrease from 1890 to 1900 in the number of "Other neat cattle" was relatively greater than during any preceding decade.

Since 1850 the number of dairy cows has increased 26.5 per cent and the number of horses 84.7 per cent. On the other hand, "Other neat cattle" have decreased in number 29.5 per cent; swine, 41.0 per cent; and sheep, 85.0 per cent. These changes are in keeping with two general phases of the revolution in the last half century in the character of New England agriculture. The farmer has met the demands of a rapidly growing urban population for dairy produce, vegetables, and fruits, by keeping more cows, and by devoting a larger portion of his time and capital to market-gardening and horticulture, which industries require much new and improved machinery and consequently more horse power. The decrease in the number of beef cattle, sheep, and swine is incident to the recognized shifting of the meat-producing industry to the Western states, and is simply another phase of the adjustment of agriculture in the East to meet the competition of the West.

ANIMAL PRODUCTS.

The quantities and values of wool, mohair, dairy produce, and other animal products, including the value of fowls raised and of animals sold and slaughtered for food, are given in Table 16. The value of all such products in 1899 was \$3,292,295, or 61.4 per cent of the gross farm income.

TABLE 16.—QUANTITIES AND VALUES OF ANIMAL PRODUCTS, VALUE OF POULTRY RAISED, AND VALUES OF ANIMALS SOLD AND SLAUGHTERED ON FARMS, IN 1899.

PRODUCTS.	Unit of measure or weight.	Quantity.	Value.
Wool	Pounds	33,682	\$7,493
Mohair and goat hair	Pounds	10	2
Milk	Gallons	112,923,512	1,923,707
Butter	Pounds	483,086	
Cheese	Pounds	6,751	656,845
Eggs	Dozens	3,217,310	
Poultry			398,790
Honey	Pounds	23,450	5,166
Wax	Pounds	890	
Animals sold			167,478
Animals slaughtered			142,824
Total			3,292,295

¹Includes all milk produced.

DAIRY PRODUCE.

In no other branch of Rhode Island agriculture has there been such constant and rapid development as in dairying. With the steady growth of city population there has been an increasing demand for dairy produce of all kinds, more especially for milk and cream. These products, being less subject to Western competition than butter and cheese, have furnished a steadily increasing percentage of the income from all dairy produce. These conditions, together with the transfer of the making of butter and cheese from the farm to the creamery and cheese factory, account for a decrease since 1890 of 49.4 per cent in the quantity of butter, and of 72.6 per cent in the quantity of cheese, produced on farms. During the same period, although the number of dairy cows decreased 283, there was an increase of 2,312,965 gallons, or 21.8 per cent, in the quantity of milk produced.

Of the \$1,923,707 given in Table 16 as the value of all dairy products in 1899, \$207,296, or 10.8 per cent, represents the value of such products consumed on farms, and \$1,716,411, or 89.2 per cent, the amount realized from dairy produce sold. Of the latter sum, \$1,563,279 was derived from the sale of 9,685,988 gallons of milk; \$81,343 from 314,737 pounds of butter; \$71,142 from 95,321 gallons of cream; and \$647 from 4,779 pounds of cheese. The value of dairy products in 1899 constituted 53.4 per cent of the value of all animal products, and 35.9 per cent of the gross farm income.

POULTRY AND EGGS.

In comparing the poultry report of 1900 with that of the Eleventh Census, it should be borne in mind that in 1900 the enumerators were instructed to report only fowls 3 months old and over, while in 1890 no such limitation was made. It is probable, therefore, that more young fowls were included in the reports of 1890 than in those of the present census. The disproportionate increase in the number of eggs produced, when compared with the increase in the number of chickens, adds force to this conclusion. Between 1890 and 1900 there was an increase of but 3.8 per cent in the number of chickens, while the number of dozens of eggs increased 59.2 per cent. In the same period ducks decreased in number 34.6 per cent; turkeys, 60.5 per cent; and geese, 62.3 per cent. The state census of 1895 showed similar decreases in the number of these fowls, and stated, upon the authority of poultry experts, that the difficulty of keeping the stock free from certain diseases, together with the effects of Western competition, tended to make the raising of such poultry unprofitable. The recent development of rapid transportation and cold-storage processes has made the West a much stronger competitor than it was in 1890.

HONEY AND WAX.

The annual production of honey and wax has more than doubled since 1889. In that year the products consisted of 13,740 pounds of honey and 358 pounds of wax, while in 1899, 23,450 pounds of honey and 890 pounds of wax were produced. This industry appears to share with dairying, poultry raising, and market gardening, the attention formerly given to the raising of live stock and the cultivation of cereals.

WOOL AND MOHAIR.

The annual clip of wool is steadily decreasing. The total production in 1889 was 41,021 pounds, and in 1899 only 33,682 pounds. In fifty years the number of sheep has decreased from 44,296 to 6,629, and the clip of wool from 129,692 to 33,682 pounds.

DISTRIBUTION OF HORSES AND DAIRY COWS ON FARMS,
BY SPECIFIED CLASSES.

Table 17 presents, for a few of the leading groups of farms, the number of farms reporting horses and dairy cows, the total number for each group, and the average number per farm. In computing the averages presented, only those farms which report the kind of stock under consideration are included.

TABLE 17.—DISTRIBUTION OF HORSES AND DAIRY COWS, BY SPECIFIED CLASSES OF FARMS, JUNE 1, 1900.

CLASSES.	HORSES.			DAIRY COWS.		
	Farms-reporting.	Number.	Average per farm.	Farms-reporting.	Number.	Average per farm.
Total.....	4,644	11,890	2.5	4,047	23,660	5.8
White farmers.....	4,623	11,341	2.5	4,034	23,638	5.9
Colored farmers.....	21	49	2.3	13	22	1.7
Owners ¹	3,530	8,460	2.4	3,100	16,892	5.4
Managers.....	178	739	4.2	155	1,773	11.4
Cash tenants.....	388	2,063	2.3	741	4,758	6.4
Share tenants.....	58	128	2.4	48	237	4.9
Under 20 acres.....	974	1,583	1.6	642	1,640	2.6
20 to 99 acres.....	2,157	4,962	2.3	1,038	9,541	4.9
100 to 174 acres.....	941	2,535	2.7	938	6,255	6.9
175 to 259 acres.....	328	1,049	3.2	318	2,703	8.5
260 acres and over.....	244	1,261	5.2	241	3,518	14.6
Hay and grain.....	149	367	2.5	99	300	3.0
Vegetable.....	506	1,285	2.5	299	1,058	3.5
Fruit.....	47	81	1.7	22	60	2.7
Live stock.....	1,840	3,557	1.9	1,514	4,543	3.0
Dairy.....	1,374	4,487	3.3	1,470	15,609	10.6
Miscellaneous ²	728	1,612	2.2	643	2,037	3.2

¹Including "Part owners" and "Owners and tenants."

²Including "Flower and plant" and "Nurseries."

The group of farms operated by managers, shown in Table 6 to have the largest average area of any group classified by tenure, also reports the largest average number of horses and dairy cows of any group in this classification. This is most noticeable in the case of dairy cows, the average being 11.4; while for owners the average is 5.4; for cash tenants, 6.4; and for share tenants, 4.9. This is due to the fact that many of the farms operated by salaried managers are adjuncts of state, county, and parish asylums and charitable institutions, where large numbers of horses and dairy cows are required.

ACREAGE AND PRODUCTION OF CROPS.

The following table gives the acreage, quantities, and values of the crops of 1899:

TABLE 18.—ACRES, QUANTITIES, AND VALUES OF THE VEGETABLE PRODUCTS OF 1899.

PRODUCTS.	Acres.	Unit of measure or weight.	Quantity.	Value.
Corn.....	8,149	Bushels.....	288,220	\$164,188
Wheat.....	15	Bushels.....	510	215
Oats.....	1,530	Bushels.....	47,120	16,631
Barley.....	222	Bushels.....	6,100	3,465
Rye.....	591	Bushels.....	7,710	4,751
Buckwheat.....	45	Bushels.....	650	427
Grass seed.....	.....	Bushels.....	435	630
Clover seed.....	.....	Bushels.....	101	605
Hay and forage.....	69,776	Tons.....	76,920	1,081,432
Hops.....	.....	Pounds.....	40	5
Dry beans.....	216	Bushels.....	3,330	6,177
Dry pease.....	45	Bushels.....	940	1,195
Potatoes.....	5,816	Bushels.....	843,853	440,372
Sweet potatoes.....	1	Bushels.....	102	60
Onions.....	232	Bushels.....	116,180	64,227
Miscellaneous vegetables.....	4,373	.....	.....	487,808
Small fruits.....	525	.....	.....	51,292
Grapes.....	126	Centals.....	1,897	24,786
Orchard fruits.....	16,129	Bushels.....	.....	155,571
Nuts.....	.....	.....	84	104
Forest products.....	.....	.....	.....	196,720
Flowers and plants.....	177	.....	.....	314,806
Seeds.....	8	.....	.....	1,900
Nursery products.....	36	.....	.....	42,295
Miscellaneous.....	.....	.....	.....	1,627
Total.....	98,657	.....	.....	3,041,569

¹Estimated from number of trees or vines.

²Including value of raisins, wine, etc.

The total value of all crops for 1899 was \$3,041,569. Of this amount, hay and forage contributed 35.6 per cent; vegetables, including potatoes and onions, 32.6 per cent; fruits and nuts, 7.0 per cent; cereals, 6.2 per cent; forest products, 6.5 per cent; flowers and plants, 10.4 per cent; and other products, 1.7 per cent.

The average yield per acre of hay and forage was 1.1 tons, and the average values were \$14.06 per ton, and \$15.50 per acre. The acreage devoted to hay and forage was 70.8 per cent of the area devoted to all crops, but it yielded only 35.6 per cent of the total receipts. The average values per acre of products from the land devoted to the various crops were as follows: Flowers and plants, \$1,778.56; nursery products, \$491.80; onions, \$219.96; miscellaneous vegetables, \$100.10; potatoes, \$75.72; orchard products, \$25.38; cereals, \$17.97. Naturally, the production of crops yielding the highest average returns per acre was attended by very high average expenditures for labor and fertilizers, and by relatively large investments in farming implements.

CHANGES IN CROPS SINCE 1889.

Table 19 presents the acreage, product, and yield per acre of each of the most important crops in 1889 and 1899.

TABLE 19.—ACREAGE AND PRODUCTION OF PRINCIPAL FARM CROPS: 1889 AND 1899.

CROPS.	NUMBER OF ACRES.		NUMBER OF BUSHELS.		NUMBER OF BUSHELS PER ACRE.	
	1889.	1889.	1889.	1889.	1889.	1889.
Barley.....	222	363	6,100	8,009	27.5	22.1
Buckwheat.....	45	41	650	349	14.4	8.5
Corn.....	8,149	7,819	288,220	253,810	35.4	32.5
Oats.....	1,530	3,648	47,120	100,520	30.8	27.6
Rye.....	591	779	7,710	9,617	13.0	12.3
Wheat.....	15	11	510	91	20.7	8.3
Hay and forage.....	69,776	94,111	176,920	101,332	11.1	11.1
Potatoes ²	5,817	5,595	843,953	830,855	145.1	59.1

¹Tons.

²Including sweet potatoes.

Owing to unusually favorable climatic conditions in 1899, the average yield per acre of most farm crops was greater than in 1889. The latter year was especially unfavorable to the growing of potatoes, the yield per acre having been only 40.7 per cent as large as in 1899. The average yield of hay per acre was approximately the same for both years, a reduction of 25.9 per cent in acreage having been attended by a corresponding reduction in the tonnage cut.

The figures of the present census show that the decline in cereal production in Rhode Island, which began about the middle of the present century, is still in progress, the total amount of grain produced in 1899 having been nearly 6 per cent less than in 1889. During this period the areas devoted to the principal cereals decreased as follows: Barley, 38.8 per cent; oats, 58.1 per cent; and rye, 24.1 per cent. Since 1859 the production of barley has decreased 85.1 per cent; buckwheat, 81.8 per cent; corn, 37.5 per cent; oats, 80.7 per cent; rye, 72.7

per cent; and wheat, 72.6 per cent. With a few exceptions, the decrease continued from decade to decade without interruption. The areas devoted to wheat and buckwheat are now so small that variations therein are of no significance. In the case of corn it is believed that the increase of 330 acres and 34,410 bushels since 1889 is closely related to the recent rapid growth of dairying. The fact that a similar movement has been noted in other New England states strengthens this conclusion.

ACREAGE AND PRODUCTION OF CORN.

Table 20 gives the total acreage and production of corn, with averages per farm and per acre for each of certain specified classes of farms.

Farms operated by managers report the largest average area in corn, and also the largest average yield per acre. As might be expected, the average acreage per farm increases with the size of the farm, but the best yields per acre are obtained from farms of medium size.

TABLE 20.—ACREAGE AND PRODUCTION OF CORN ON FARMS OF SPECIFIED CLASSES IN 1899.

CLASSES.	Number of farms reporting.	NUMBER OF ACRES.		NUMBER OF BUSHELS.	
		Total.	Average per farm.	Total.	Average per acre.
Total.....	2,652	8,149	3.1	288,220	35.4
White farmers	2,640	8,130	3.1	287,760	35.4
Negro farmers	12	19	1.6	460	24.2
Owners ¹	2,927	5,733	2.8	202,850	35.4
Managers	106	628	5.9	23,520	37.5
Cash tenants.....	488	1,066	3.4	57,970	34.8
Share tenants.....	36	117	3.3	3,880	33.2
Under 20 acres.....	299	490	1.6	16,220	33.1
20 to 99 acres.....	1,257	3,153	2.5	112,030	35.5
100 to 174 acres.....	648	2,108	3.3	76,970	36.5
175 to 259 acres.....	257	1,161	4.5	41,450	35.7
260 acres and over	191	1,237	6.5	41,550	33.6

¹Including "Part owners" and "Owners and tenants."

ORCHARD FRUITS.

The changes in orchard fruits since 1890 are shown in the following table:

TABLE 21.—ORCHARD TREES AND FRUITS: 1890 AND 1900.

FRUITS.	NUMBER OF TREES.		BUSHELS OF FRUIT.	
	1900.	1890.	1899.	1889.
Apples.....	213,598	207,230	839,445	239,367
Apricots.....	37	28	12	5
Cherries.....	2,198	3,014	1,329	689
Peaches.....	48,063	11,816	6,140	1,149
Pears.....	23,344	20,794	12,452	10,037
Plums and prunes.....	4,327	1,183	571	138

A noteworthy development of the fruit-growing industry has occurred during the last decade. This is especially marked in the cultivation of peaches, the number of trees having increased 36,247, or 306.8 per cent, and the quantity of fruit produced 4,991 bushels,

or 434.4 per cent. Substantial gains were made in every county of the state. In Newport county the number of trees increased from 399 to 3,227, or 709 per cent; in Providence county, from 2,096 to 24,373, or 1,063 per cent; and in Washington county, from 854 to 9,634, or 1,028 per cent.

All counties show in 1899 great increases over the quantities of fruit reported in 1889. The principal factors in this increase are the planting of young trees, more scientific methods of caring for orchards, and a more favorable year. The average yield per tree was 31.0 per cent greater than ten years before.

The number of apple trees increased 3.1 per cent, the entire gain having been in Providence and Washington counties. All other counties report a decrease, that in Bristol county having been from 6,591 trees to 3,599 trees, or 45.4 per cent. The number of bushels gathered, however, was greater in every county than in 1889, the gain for the state having been 41.8 per cent. Newport county reported the largest relative increase, from 8,712 to 30,343 bushels.

Pear trees increased in number 12.3 per cent, decreases in Bristol, Kent, and Washington counties having been offset by an increase from 10,210 to 13,432 trees in Providence county. Bristol county was the only one to report a smaller quantity of pears in 1899 than in 1889. The crop of the state increased 24.1 per cent.

The unusually favorable season of 1899 was responsible for an increase of 92.9 per cent in the cherry crop, although the number of trees had decreased 27.2 per cent. The number of plum and prune trees increased 265.8 per cent and the quantity of fruit produced, 313.8 per cent.

Providence county contains a large proportion of the fruit trees of the state, reporting in 1900, 56.4 per cent of the apple trees; 50.7 per cent of the peach trees; 57.5 per cent of the pear trees; 66.3 per cent of the cherry trees; and 45.9 per cent of the plum and prune trees. Of the total product, this county reports 44.1 per cent of the apples; 20.4 per cent of the peaches; 49.0 per cent of the pears; 77.7 per cent of the cherries; and 51.3 per cent of the plums and prunes. Washington county stands second, with about 20 per cent of all trees and fruits produced.

For the state the total value of all orchard products in 1899 was \$155,571. Of this amount Bristol county reported \$4,339; Kent county, \$21,986; Newport county, \$15,572; Providence county, \$77,040; and Washington county, \$36,634.

VEGETABLES AND SMALL FRUITS.

In 1899 the value of all vegetables, including potatoes, sweet potatoes, and onions, was \$992,467, of which amount 44.4 per cent represents the value of potatoes. The total area used in the growing of miscellaneous vegetables, not including potatoes and onions, was 4,873 acres, of which 1,189 acres were devoted to sweet corn;

325 acres to tomatoes; 302 acres to cabbages; and 258 acres to cucumbers. A considerable portion of the total acreage was included in family gardens, the products of which were not reported in detail.

Irrigation was reported on 2 farms only, and the total area irrigated was 40 acres. This entire acreage was in garden crops, and the value of the produce grown in 1899 was \$32,515, an average of over \$800 per acre.

The cultivation of small fruits was reported by 779 farmers. From 565 acres, an average of 0.73 acre per farm, they obtained in 1899 fruit valued at \$51,292. The acreage and products of berries were as follows: Cranberries, 300 acres and 209,888 quarts; strawberries, 154 acres and 381,870 quarts; raspberries and loganberries, 47 acres and 83,300 quarts; currants, 26 acres and 54,020 quarts; blackberries and dewberries, 17 acres and 23,600 quarts; gooseberries, 7 acres and 5,820 quarts; and unclassified berries, 14 acres and 31,200 quarts. Of the grand total of 789,698 quarts, strawberries yielded 48.4 per cent.

CULTURE OF FLOWERS, AND USE OF GLASS IN AGRICULTURE.

In 1899, 177 acres of land were devoted to the cultivation of flowers and ornamental plants, and the products sold therefrom were valued at \$314,806. The number of establishments reporting was 139, making the average area 1.3 acres and the average value of products \$2,264.79.

In 108 of these establishments commercial floriculture was the principal business. The capital invested in land and improvements, buildings, implements, and live

stock was \$782,115, of which \$339,825 represents the value of the buildings. The receipts from flowers and plants were \$288,659, and from other products, \$7,515. The proprietors expended \$72,982 for labor and \$5,950 for fertilizers.

The florists' establishments reported greenhouses with a glass surface of 962,204 square feet, covering 721,653 square feet of ground. In addition, 93 farmers and market gardeners used glass in growing flowers, plants, or vegetables. They had an area under glass of 675,447 square feet, making, with that reported by the florists, a total area under glass of 1,397,100 square feet.

LABOR AND FERTILIZERS.

The amount expended in 1899 for labor, including board furnished, was \$1,032,360, an average of \$188 per farm. The average expenditure was naturally greatest on the most intensively cultivated farms, being \$1,345 for nurseries, \$676 for florists' establishments, \$356 for vegetable farms, and \$301 for dairy farms. The lowest average cost of labor, \$70 per farm, was on live-stock farms. The variations in average expenditure correspond closely with the size of farms and the value of products.

The total cost of fertilizers purchased in 1899 was \$264,140, an average of \$48 per farm, and an increase of 52.8 per cent over the sum expended in 1889. In that year each farmer expended, on an average, but \$31 per farm, \$17 less than in 1899. Of the total amount expended in 1899, 43.3 per cent was for fertilizers used on vegetable farms, the average for such farms, \$201, being greater than for any other class.

CENSUS BULLETIN.

No. 109.

WASHINGTON, D. C.

November 9, 1901.

MANUFACTURES.

CONNECTICUT.

HON. WILLIAM R. MERRIAM,

Director of the Census.

SIR: I transmit herewith, for publication in bulletin form, the statistics of manufacturing and mechanical industries for the state of Connecticut for the census year 1900, taken in accordance with the provisions of section 7 of the act of March 3, 1899. This section requires that "The schedules of inquiries relating to the products of manufacturing and mechanical establishments shall embrace the name and location of each establishment; character of organization, whether individual, cooperative, or other form; date of commencement of operations; character of business or kind of goods manufactured; amount of capital invested; number of proprietors, firm members, co-partners, or officers, and the amount of their salaries; number of employees, and the amount of their wages; quantity and cost of materials used in manufactures; amount of miscellaneous expenses; quantity and value of products; time in operation during the census year; character and quantity of power used; and character and number of machines employed."

In each of the above particulars the requirements of the law have been observed, but certain of the data thus elicited are reserved for publication in the final volumes.

As Connecticut is a compact state with many manufacturing towns, a different method of field work was pursued there from that adopted in most of the states. Sixty-one cities and towns were withdrawn from the enumerators and assigned to special agents, and Mr. William A. Countryman, of Hartford, was appointed chief special agent in charge of the entire field force of special agents, numbering 53. Wherever the phrase "urban manufactures" is used in this bulletin, it applies to the cities and towns thus withdrawn from enumerators; and it appears from the tables now submitted that these 61 cities and towns contained 87.4 per cent of the establishments of the state, used 91.9 per cent of the capital, employed 91.5 per cent of the wage-earners, paid 92.2 per cent of the wages, and produced 92.4 per cent of the entire product of the state. It follows that the canvass of Connecticut has been more closely made than that of any state hitherto reported, the office having depended upon enumerators for but a small proportion of its reports. In addition to superintending the field work, Mr. Countryman has also prepared the text which accompanies the tables in the following bulletin.

Six cities in Connecticut contain a population exceeding 20,000 each: Bridgeport, Hartford, Meriden, New Britain, New Haven, and Waterbury. The manufacturing statistics of these cities are presented in detail by industries, and, with the exception of New Britain, in comparison with the returns for the Eleventh Census.

The statistics of Connecticut are presented in 9 tables: Table 1 showing comparative figures for the state at the several censuses; Table 2 showing all the industries of the state divided between hand trades and the manufactures proper, and also the statistics of a governmental establishment, institutions, and establishments with a product of less than \$500, which three latter classes were not reported at previous censuses; Table 3 showing the statistics of the 17 leading industries of the state for 1890 and 1900; Table 4 showing the manufacturing statistics of the cities of Bridgeport, Hartford, Meriden, New Haven, and Waterbury for the censuses of 1890 and 1900; Table 5 showing the urban manufactures of the state in comparison with the totals for the entire state and the state outside of the cities and towns withdrawn from the enumerators; Table 6 showing the statistics for the state by counties; Table 7 showing the statistics for the state by specified industries; Table 8 showing the cities of Bridgeport, Hartford, Meriden, New Britain, New Haven, and Waterbury by specified industries; and Table 9 showing the totals for all industries in each of the cities and towns withdrawn from the enumerators (exclusive of those shown in Table 8).

Table 1 shows the growth of manufactures in Connecticut for the half century which terminates with the Twelfth Census. The manufacturing statistics of the censuses prior to 1850 were too imperfect and fragmentary in character to make it proper to reproduce them in such a table as a measure of industrial growth in the first half of the century. Owing to changes in the method of taking the census, comparisons between the earlier and later decades, represented in Table 1, should be drawn only in the most general way. Nevertheless, the rate of growth in Connecticut manufactures may be fairly inferred from the figures given.

In drafting the schedules of inquiry for the census of 1900, care was taken to preserve the basis of comparison with prior censuses. Comparison may be made safely with respect to all the items of inquiry except those relating to capital, salaried officials, clerks, etc., and their salaries, the average number of employees, and the total amount of wages paid. Live capital, that is, cash on hand, bills receivable, unsettled ledger accounts, raw materials, stock in process of manufacture, finished products on hand, and other sundries, was first called for at the census of 1890. No definite attempt was made, prior to the census of 1890, to secure a return of live capital invested.

Changes were made in the inquiry relating to employees and wages in order to eliminate defects found to exist on the form of inquiry adopted in 1890. At the census of 1890 the average number of persons employed during the entire year was called for, and also the average number employed at stated weekly rates of pay, and the

average number was computed for the actual time the establishments were reported as being in operation. At the census of 1900 the greatest and least numbers of employees were reported, and also the average number employed during each month of the year. The average number of wage-earners (men, women, and children) employed during the entire year was ascertained by using 12, the number of calendar months, as a divisor into the total of the average numbers reported for each month. This difference in the method of ascertaining the average number of wage-earners during the entire year may have resulted in a variation in the number, and should be considered in making comparisons.

At the census of 1890 the number and salaries of proprietors and firm members actively engaged in the business or in supervision were reported, combined with clerks and other officials. In cases where proprietors and firm members were reported without salaries, the amount that would ordinarily be paid for similar services was estimated. At the census of 1900 only the number of proprietors and firm members actively engaged in the industry or in supervision was ascertained, and no salaries were reported for this class. It is therefore impossible to compare the number and salaries of salaried officials of any character for the two censuses.

Furthermore, the schedules for 1890 included in the wage-earning class, overseers, foremen, and superintendents (not general superintendents or managers), while the census of 1900 separates from the wage-earning class such salaried employees as general superintendents, clerks, and salesmen. It is possible and probable that this change in the form of the question has resulted in eliminating from the wage-earners, as reported by the present census, many high-salaried employees included in that group for the census of 1890.

In some instances, the number of proprietors and firm members, shown in the accompanying tables, falls short of the number of establishments reported. This is accounted for by the fact that no proprietors or firm members are reported for corporations or cooperative establishments. The number of salaried officials, clerks, etc., is the greatest number reported employed at any one time during the year, and this number may appear excessive as compared with the amount of salaries paid. The seeming inconsistency is due to the large number of establishments reporting clerks employed but a short period, who received salaries that would be small if reckoned as for the entire year.

The reports show a capital of \$314,696,736 invested in manufactures and mechanical industries in the 9,128 establishments reporting for the state of Connecticut. This sum represents the value of land, buildings, machinery, tools, and implements, and the live capital utilized, but does not include the capital stock of any of the manufacturing corporations of the state. The value of the products is returned at \$352,824,106, to produce which involved an outlay of \$12,286,050 for salaries of officials, clerks, etc., \$82,767,725 for wages, \$23,089,806 for miscellaneous expenses, including rent, taxes, etc., and \$185,641,219 for materials used, mill supplies, freight, and fuel. It is not to be assumed, however, that the difference between the aggregate of these sums and the value of the products is, in any sense, indicative of the profits in the manufacture of the products during the census year. The census schedule takes no cognizance of the cost of selling manufactured articles, or of interest on capital invested, or of the mercantile losses incurred in the business, or of depreciation in plant. The value of the product given is the value as obtained or fixed at the shop or factory.

This statement is necessary in order to avoid erroneous conclusions from the figures presented.

The value of products for the state of Connecticut, \$352,824,106, is the gross value, and not the net or true value. The difference between these two should be carefully noted. The gross value is found by adding the values of products in the separate establishments. But the finished product of one establishment is often the raw material for another. In such cases the value of the former reappears in the latter, and thus the original cost of certain materials may be included several times in the gross value. The net or true value is found by subtracting from the gross value the value of all materials purchased in a partly manufactured form. In this way the duplications in the gross value are eliminated.

At the census of 1890 the schedule was so framed that it was impossible to find the net or true value. In the present census the schedule asked for the value of the materials in two classes, those purchased in the crude state and those purchased in the partly manufactured form. From the answers to these questions the net or true value of products may be computed. Thus, for Connecticut, the gross value of products for 1900 was \$352,824,106. The value of materials purchased in partly manufactured form was \$144,809,525. The difference, \$208,014,581, is the net or true value of products, and represents the increase in the value of raw materials resulting from the various processes of manufacture.

The industrial development of Connecticut presents one of the most remarkable and interesting chapters in the history of American manufactures, as has been fully brought out in the accompanying bulletin. Although ranking forty-third in area among the states of the Union, and twenty-ninth in population, Connecticut stood tenth among the states in 1890 in the gross value of the product of her manufacturing industries, and there is no reason to believe that this high rank will be altered when the statistics of the Twelfth Census are fully compiled.

There were 11 important industries in which, in 1890, Connecticut led the country in value of products: Ammunition; bells; brass and copper, rolled; brass castings and finishing; brassware; clocks; corsets; cutlery and edge tools; hardware; plated and britannia ware; and needles and pins. It is also noteworthy that the state ranked first in average number of employees in these industries, thus combining the employment of the largest number of people with the greatest value of products. In 1890 the state made 58.7 per cent in value of the ammunition of the country; 50.2 per cent of the brass manufactures; 73.7 per cent of the clocks; 50.6 per cent of the corsets; 26.1 per cent of the cutlery and edge tools; 44.9 per cent of the hardware; 65.8 per cent of the plated and britannia ware; 48.6 per cent of the needles and pins; and 34.3 per cent of the bells—bicycle and other small bells.

Connecticut has always been a home of the textile manufactures, ranking sixth in that industry at the census of 1890. The aggregate value of the textile products of the state in 1900 was \$49,265,752, an increase of 5.4 per cent over 1890. All the indications of the statistics are that the state of Connecticut is holding her own in most of her staple industries and rapidly gaining in others.

Very respectfully,



Chief Statistician for Manufactures.

CONNECTICUT.

Table 1 shows the manufacturing and mechanical industries of the state of Connecticut as returned at the censuses of 1850 to 1900, inclusive, with the percentages of increase for each decade. This table also presents the average number of wage-earners employed by manufacturing establishments, in comparison with the total population of the state, and the value of the land and buildings owned and reported by manufacturers as capital, in comparison with the assessed value of all real estate and improvements.

TABLE 1.—COMPARATIVE SUMMARY, 1850 TO 1900, WITH PER CENT OF INCREASE FOR EACH DECADE.

	DATE OF CENSUS.						PER CENT OF INCREASE.				
	1900	1890	1880	1870	1860	1850	1890 to 1900	1880 to 1890	1870 to 1880	1860 to 1870	1850 to 1860
Number of establishments	9,128	6,822	4,488	5,128	3,019	3,737	33.8	52.0	112.5	69.9	119.2
Capital	\$314,696,786	\$227,004,496	\$120,480,275	\$95,281,278	\$45,590,480	\$25,876,648	38.6	88.4	26.4	109.0	76.2
Salaried officials, clerks, etc., number	9,981	9,426	(3)	(3)	(3)	(3)	5.9				
Salaries	\$12,286,050	\$9,525,289	(3)	(3)	(3)	(3)	29.0				
Wage-earners, average number	176,694	140,514	112,915	89,523	64,469	50,731	25.7	24.4	26.1	88.9	27.1
Total wages	\$82,767,725	\$66,465,317	\$43,501,518	\$38,987,187	\$19,026,196	\$12,435,984	24.5	52.8	11.6	104.9	53.0
Men, 16 years and over	180,610	101,318	75,619	61,684	44,002	34,248	28.9	34.0	22.6	40.2	28.5
Wages	\$69,227,497	\$55,223,273	(3)	(3)	(3)	(3)	25.4				
Women, 16 years and over	42,605	36,111	28,851	20,810	20,467	16,483	18.0	25.2	88.6	1.7	24.2
Wages	\$12,573,190	\$10,697,898	(3)	(3)	(3)	(3)	20.3				
Children, under 16 years	3,479	3,085	8,445	7,020	(3)	(3)	12.8	168.5	20.1		
Wages	\$667,038	\$544,151	(3)	(3)	(3)	(3)	22.6				
Miscellaneous expenses	\$23,089,806	\$15,399,101	(4)	(4)	(4)	(4)	49.9				
Cost of materials used	\$185,641,219	\$123,183,080	\$102,183,341	\$86,419,579	\$40,909,090	\$23,608,971	50.7	20.6	18.2	111.2	73.8
Value of products, including custom work and repairing	\$352,824,106	\$243,386,364	\$185,697,211	\$161,065,474	\$81,924,555	\$47,114,585	42.1	33.7	15.3	96.6	73.9
Total population	908,420	746,258	622,700	537,454	460,147	370,792	21.7	19.8	15.9	16.8	24.1
Wage-earners engaged in manufactures	176,694	140,514	112,915	89,523	64,469	50,731	25.7	24.4	26.1	88.9	27.1
Per cent of total population	19.5	18.8	18.1	16.7	14.0	13.7	86.2	14.3	12.1	6.6	98.6
Assessed value of real estate	\$486,787,973	\$261,451,606	\$223,791,287	\$204,110,509	\$191,478,842	\$96,412,947					
Value of land and buildings invested in manufactures ⁵	\$56,872,050	\$49,277,118	(3)	(3)	(3)	(3)	35.7				
Per cent of assessed value	13.7	18.8									

¹ Decrease.

² Includes proprietors and firm members, with their salaries; number only reported in 1900. (See Table 7.)

³ Not reported separately.

⁴ Not reported.

⁵ Does not include the value of rented property.

Table 1 discloses the steady growth of the manufacturing industries of Connecticut which has led to the characterization of the state as the "Lancashire of New England."

The total population of the state in 1850 was 370,792, and in 1900, 908,420, an increase in the fifty years of 537,628, or 145 per cent. The average number of wage-earners employed in manufacturing establishments has increased from 50,731 in 1850 to 176,694 in 1900, an increase of 125,963, or 248.3 per cent, and embraced in the latter year 19.5 per cent of the total population, as compared with 13.7 per cent in 1850. The greatest number of wage-earners engaged in manufactures at any one time during the year was 212,865, or 23.4 per cent of the total population, and this percentage is a more accurate indication of the proportion so employed.

The period of greatest increase during the half century covered by Table 1 was that between 1860 and 1870, but the values reported for 1870 were expressed in a currency which was at a discount in gold. The increase in products from 1850 to 1860 was 73.9 per cent; from 1860 to 1870, 96.6 per cent; from 1870 to 1880, 15.3 per cent; from 1880 to 1890, 33.7 per cent; and from 1890 to 1900, 42.1 per cent.

Table 2 divides the industries of the state between the hand trades and the manufactures proper. This table also gives the statistics for one governmental establishment, institutions, and establishments with a product of less than \$500; these were not reported at previous censuses, and therefore are omitted from the other tables.

TABLE 2.—SUMMARY FOR ALL ESTABLISHMENTS.

CLASSES.	Number of establishments.	Capital.	Proprietors and firm members.	WAGE-EARNERS.		Miscellaneous expenses.	COST OF MATERIALS USED.				Value of products, including custom work and repairing.
				Average number.	Total wages.		Total.	Purchased in raw state.	Purchased in partially manufactured form.	Fuel, freight, etc.	
Total	10,115	\$315,146,811	10,399	177,094	\$32,820,750	\$23,133,960	\$185,737,237	\$33,011,071	\$144,893,845	\$7,832,871	\$353,171,480
Hand trades ¹	4,630	10,316,973	5,066	14,981	8,311,715	8,517,607	12,765,083	197,252	12,215,254	842,577	31,429,844
Governmental establishment	1	19,498		61	22,132	8,554	2,366		1,486	880	39,494
Eleemosynary and penal institutions	9	31,050	1	295	13,148	2,180	10,515	4,800	4,380	835	38,261
Establishments with a product of less than \$500	977	399,527	1,017	44	17,745	33,440	83,187	5,686	77,454	47	274,619
All other establishments	4,498	304,379,763	4,315	161,763	74,456,010	19,572,199	172,836,136	32,803,333	132,504,271	7,438,532	321,394,262

¹ Includes bicycle and tricycle repairing, 197; blacksmithing and wheelwrighting, 795; boots and shoes, custom work and repairing, 594; carpentering, 547; clothing, men's, custom work and repairing, 431; clothing, women's, dressmaking, 389; dyeing and cleaning, 29; furniture, cabinetmaking, repairing, and upholstering, 123; lock and gun smithing, 27; masonry, brick and stone, 238; millinery, custom work, 237; painting, house, sign, etc., 423; paper hanging, 25; plastering and stuccowork, 18; plumbing, and gas and steam fitting, 334; sewing machine repairing, 3; taxidermy, 1; typewriter repairing, 1; watch, clock, and jewelry repairing, 223.

Of the 10,115 establishments of all classes, shown in this table, 5,607, or 55.4 per cent, were small shops included in the groups of "hand trades" and "establishments with a product of less than \$500." The value of the products of these establishments, consisting principally of the sums received for custom work and repairing, amounted to

\$31,704,463, or 9 per cent of the total products of the state.

In addition to the 10,115 active establishments in the state during the census year, with a capital of \$315,146,811, shown in Table 2, there were 56 idle establishments, with a capital of \$1,582,519, divided as follows:

INDUSTRIES.	Number of idle establishments.	Capital.	INDUSTRIES.	Number of idle establishments.	Capital.
Agricultural implements	1	\$10,025	Paper and wood pulp	2	\$60,000
Brassware	1	7,000	Paper goods, not elsewhere specified	1	150,000
Brass castings and brass finishing	3	321,770	Paving and paving materials	2	17,600
Brick and tile	5	11,300	Plated and Britannia ware	1	25,000
Clocks	2	17,300	Pottery, terra cotta, and fire-clay products	1	20,000
Flouring and grist mill products	3	11,550	Shipbuilding, iron and steel	1	500,000
Foundry and machine shop products	1	85,183	Silk and silk goods	1	20,300
House furnishing goods	1	28,540	Silverware	1	30,000
Iron and steel	3	139,111	Woolen goods	4	49,800
Needles and pins	1	40,000	All other	21	33,035

Comparative statistics for the 17 leading industries in Connecticut are presented in Table 3.

TABLE 3.—COMPARATIVE SUMMARY OF SEVENTEEN LEADING INDUSTRIES.

INDUSTRIES.	Year.	Number of establishments.	Capital.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Average number.	Total wages.			
Total for selected industries for state	1900	998	\$201,903,756	110,346	\$49,880,799	\$11,512,569	\$112,710,165	\$205,734,909
	1890	949	151,197,907	89,154	40,011,864	9,843,339	69,903,660	141,281,406
Increase, 1890 to 1900		44	50,705,849	21,192	9,868,935	1,664,230	42,806,505	64,453,503
Per cent of increase		4.6	33.5	23.8	24.7	16.9	61.2	45.6
Per cent of total of all industries in state	1900	10.9	64.2	62.5	80.3	49.9	60.7	53.3
	1890	13.9	66.6	63.4	80.2	64.0	56.7	56.9
Ammunition	1900	5	4,780,388	4,134	2,133,270	919,039	5,200,307	9,823,712
	1890	4	1,438,320	1,443	668,406	205,505	320,252	3,338,774
Brass manufactures:								
Total	1900	58	25,274,362	12,652	6,698,955	1,333,028	36,185,970	48,526,868
	1890	53	21,025,633	10,636	5,136,334	1,410,427	12,326,536	22,309,394
Brass and copper, rolled	1900	11	11,900,134	5,303	2,853,013	610,164	24,133,559	29,787,282
	1890	5	4,767,396	1,600	732,023	163,570	4,169,933	4,169,933
Brass castings and brass finishing	1900	26	7,164,071	4,221	2,221,333	367,656	5,770,875	9,470,427
	1890	25	7,109,461	3,327	1,633,267	536,761	4,237,237	7,423,011
Brassware	1900	21	6,210,657	3,123	1,619,609	355,208	6,281,536	9,269,159
	1890	23	9,148,326	5,709	2,731,094	710,096	5,983,668	10,711,945
Carriages and wagons	1900	117	5,010,316	2,192	1,298,096	161,571	1,532,351	4,205,723
	1890	131	3,093,997	1,904	1,273,222	152,497	1,491,618	3,593,944
Clocks	1900	10	5,065,682	3,320	1,907,558	240,804	1,325,425	4,545,047
	1890	9	4,435,429	2,777	1,373,629	200,499	1,037,327	3,117,136
Corsets	1900	24	2,978,593	5,755	1,796,193	263,492	3,179,304	6,346,964
	1890	18	3,982,271	4,868	1,692,751	543,631	3,033,618	6,274,867
Cutlery and edge tools	1900	44	5,355,752	4,077	2,037,193	335,952	1,904,668	5,362,620
	1890	48	3,443,843	2,162	1,168,407	241,842	956,608	2,895,390

TABLE 3.—COMPARATIVE SUMMARY OF SEVENTEEN LEADING INDUSTRIES—Continued.

INDUSTRIES.	Year.	Number of establishments.	Capital.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Average number.	Total wages.			
Electrical apparatus and supplies.....	1900	17	\$2,513,812	961	\$405,604	\$222,400	\$1,978,715	\$3,167,842
	1890	5	681,182	167	81,547	82,841	390,171	628,602
Foundry and machine shop products.....	1900	260	23,020,068	12,646	6,948,809	1,097,036	6,688,689	18,991,079
	1890	198	13,523,724	8,648	5,031,488	951,626	4,874,852	13,814,156
Fur hats (also hats and caps, not including fur hats, and wool hats)	1900	73	8,292,146	5,265	2,565,299	407,450	3,992,328	8,098,072
	1890	50	2,542,892	6,065	3,107,265	346,981	3,084,118	7,527,017
Hardware.....	1900	63	21,694,851	12,056	5,664,046	1,333,779	6,576,620	16,301,198
	1890	70	13,458,589	8,108	3,977,952	1,501,598	4,407,985	11,995,028
Iron and steel.....	1900	8	4,986,147	1,828	959,825	198,067	2,348,411	4,318,481
	1890	13	2,189,621	649	362,405	96,123	1,324,078	2,037,618
Needles and pins.....	1900	18	2,250,021	1,238	533,298	177,603	708,323	1,761,806
	1890	13	1,030,573	660	271,426	42,525	257,273	737,396
Paper and wood pulp.....	1900	49	3,968,152	1,425	633,413	279,962	1,982,080	3,565,021
	1890	42	3,920,916	1,393	625,522	302,592	2,014,680	3,556,257
Plated and britannia ware.....	1900	26	13,067,209	4,491	2,293,017	582,635	4,679,220	9,538,397
	1890	21	9,916,866	4,159	2,071,698	782,563	3,391,944	7,569,920
Rubber and elastic goods.....	1900	22	6,094,887	3,006	1,136,162	452,293	5,697,899	8,246,240
	1890	16	2,300,690	2,245	869,877	108,115	2,093,148	3,476,393
Sewing machines and attachments.....	1900	7	5,216,570	2,104	1,176,022	265,786	966,567	3,170,187
	1890	5	4,174,710	1,294	697,654	142,030	542,385	1,646,184
Textiles: Total.....	1900	197	66,834,315	32,587	11,533,984	8,236,772	27,272,988	49,265,752
	1890	208	60,033,346	31,991	11,562,381	2,801,894	27,251,161	46,787,780
Cotton goods (including cotton small wares).....	1900	57	27,367,538	13,205	4,397,024	1,288,809	7,638,538	15,500,842
	1890	65	26,431,578	13,220	4,239,546	954,637	8,215,751	15,409,476
Dyeing and finishing textiles.....	1900	5	3,243,744	1,300	578,766	216,075	907,377	2,269,967
	1890	5	775,352	477	237,102	77,336	300,360	715,388
Hosiery and knit goods.....	1900	25	6,149,338	3,243	1,131,078	205,658	2,202,640	4,043,977
	1890	27	4,822,911	3,059	967,301	197,422	2,029,921	3,771,567
Shoddy.....	1900	7	494,074	118	44,163	33,601	362,438	537,733
	1890	7	395,336	166	72,545	26,099	442,352	645,060
Silk and silk goods.....	1900	38	12,166,775	6,514	2,392,373	637,450	7,193,003	12,378,981
	1890	35	9,037,042	4,964	1,847,531	270,426	6,201,876	9,788,951
Woolen goods.....	1900	51	9,140,066	4,668	1,760,917	473,106	4,951,162	8,097,213
	1890	55	10,188,042	5,069	1,881,019	614,561	5,763,095	9,082,493
Worsted goods.....	1900	10	5,054,059	2,198	846,901	310,267	2,971,926	4,539,814
	1890	10	5,263,201	2,234	833,271	405,369	2,814,186	4,651,402
All other textiles (carpets and rugs, other than rag; felt goods)	1900	4	3,218,121	1,341	432,222	71,806	1,140,899	1,897,220
	1890	4	3,124,884	2,802	1,474,016	266,044	1,493,120	2,690,448

The state of Connecticut comprises 4,845 square miles of land, 145 square miles of water, and a sea coast 100 miles in length on Long Island Sound. In area it ranks forty-third among the states of the Union (but two, Rhode Island and Delaware, are smaller), and in order of population it is twenty-ninth.

The preeminence of the state in manufacturing is due in part to its excellent communication by rail and water with all parts of the country; to its geographical location, by which it can handle a large export trade; to its water power; to its plentiful supplies of labor and capital, the former gathered easily in the great centers of the east, and the latter coming to it not alone from its profitable manufactures but also from its large insurance and banking interests; to its joint-stock laws; and, above all, to its early settlers and their descendants, men of great inventive genius, frugality, and industry.

Alexander Johnston, in his "Connecticut," becomes enthusiastic over the progress of the commonwealth. By looking out for himself, the Connecticut Yankee had, before the close of the last century, developed household industries, working day and night, making nails or anything that would sell. This application, continued through generations, took the place of the present-day technical

schools. This has developed in recent years the modern mechanic out of the Connecticut agriculturist and transformed the commonwealth into a great industrial community. As early as 1716, nail mills were established, and there was a surplus of product for exportation. Connecticut's iron mines in the town of Salisbury furnished iron for the cannon for the Continental Army and the chains that barred the Hudson River to the enemy. "Lack of coal as fuel," the historian writes, "might weigh heavily against the value of their iron mines, but the ingenuity of the workmen was a possession that could not be taken away." These men "scoured the world for materials and passed them through the crucible of Connecticut ingenuity." But the joint-stock act of 1837 contributed greatly to the state's prosperity. Its principle of permitting small sums to be capitalized in manufacture, has been copied by almost every state in the Union and by Great Britain, the effect upon the "industrial development of the whole modern world" being "quite beyond calculation."¹

In Connecticut more industries are secured by patents than in any other state.² For many years the state has led

¹ Connecticut, Alexander Johnston, page 323 et seq.

² History of Connecticut, E. B. Sanford, page 291.

the country in number of patents issued in proportion to population; in 1890 it was 1 patent to every 796 persons; in 1900, 1 to every 1,203.

Connecticut has been widely known as the manufacturing center for Yankee notions. The Census Office classifications, being necessarily general, can not show the great variety of these wares. They are found largely in such classifications as brassware, foundry and machine shop products, fancy articles not elsewhere specified, etc. The manufacturing statistics of the country are assigned to 359 classifications according to their products of chief value; of these Connecticut is accredited with 249, or 69.4 per cent.

The patents granted to the inventors of one city in Connecticut show a small percentage of an infinitude of small wares, such as bottle-top handles, shot-pouch chargers, lamp holders, bread toasters, scissors sharpeners, machines for sticking pins in paper (which helped Connecticut to undersell other markets), picture nails, carpet fasteners, clothes-dryers, necktie fasteners, eyelets, napkin holders, utensils for mixing liquids, perforated music sheets, washing machines, drawer pullers, and church-pew headrests.

The Yankee peddler was developed by the manufacture of tinware, clocks, and other small wares, and Connecticut became the land of Yankee notions and Brother Jonathan. Tinware was first manufactured in Connecticut, in Berlin, about 1770.¹ In 1795 Mark Leavenworth began the manufacture of axes, steelyards, ramrods, bayonets, and other small articles of steel. In 1801 he journeyed to Georgia with axes and steelyards, exciting much wonder.²

Eli Terry, one of the founders of the clock manufacture, received pay for a clock in salt pork, which he carried home in his saddlebags. Chauncey Jerome, another of the founders, went to surrounding towns with clocks to sell. He would take one under each arm and go from house to house.³ In 1800, Gideon Roberts used to take three or four clocks at a time to New York state to sell. "I have seen him many times, when a small boy, pass my father's house on horseback with a clock in each of his saddlebags, and a third lashed on behind the saddle with the dials in plain sight."³

Eli Terry obtained his knowledge of clocks from Thomas Harland, who came to Norwich from London, England, in 1778. Mr. Terry was a native of East Windsor, now South Windsor, where he made his first clock, with wooden wheels, in 1792. He moved to Plymouth in 1793, invented the pillar-scroll and case clock in 1814, and made a fortune. A village in Plymouth is now named in his honor, and in the town of Thomaston, which was set off from Plymouth, a large clock factory still flourishes, established by Seth Thomas about the year 1808. The industry has since been started in Waterbury, Winsted, Litchfield, and Bristol. In all these places, except Litchfield, the business has

remained, and increased to large proportions. Chauncey Jerome, who was an apprentice of Mr. Terry at Plymouth, left him to make brass shelf clocks in Bristol. In 1837 he revolutionized the industry by using brass wheels, and in 1844 he removed to New Haven, where the New Haven Clock Company's works founded by him still exist.

New Haven produced the inventor of the process of vulcanizing india-rubber, Charles Goodyear. His father was an inventor, having a shop at Naugatuck, while he himself made iron forks for agricultural use and started a hardware store in Philadelphia. As no method of hardening rubber had yet been discovered, rubber shoes melted in summer and remained sticky and odorous in winter. Nathaniel Hayward, of Woburn, Mass., who, in 1850, started the Hayward Rubber Works at Colchester, Conn., had discovered a method of hardening the surface of the gum by adding powdered sulphur. He assigned this patent to Goodyear, who, one cold winter's night, while with his family around the stove, accidentally dropped a bit of the gum on the red-hot iron. It vulcanized. He nailed it to the outside of the house until morning, and found it perfectly elastic. Thus was established the principle on which the rubber goods of the world are made. His first patent was secured in 1844; he secured more than fifty in all; won many medals at foreign exhibitions, and received the ribbon of the Legion of Honor from the Emperor of France. Upon his license were founded the large factories at Naugatuck. New Haven has a large plant.

Eli Whitney, the inventor of the cotton-gin, was one of the earliest makers of firearms. He began at Whitneyville, just outside of New Haven, early in the century. He took up the system of interchangeable parts for guns, and by close personal supervision executed contracts which had caused the failure of other contractors. In 1814 Colonel North made pistols in Middletown.⁴

In 1829 Samuel Colt, of Hartford, while on a voyage to Calcutta, devised a six-barreled revolver to be used with percussion caps. In 1835 he perfected a six-barreled rotating breech, and Lieutenant-Colonel Harney used this arm in 1837 in fighting the Indians. Then came the Mexican War and the California gold craze. Colonel Colt built factories at Hartford costing half a million dollars. In 1858 he was turning out 60,000 revolvers a year. They were used by the English in the Crimea and by Garibaldi in Italy.⁵ The Spencer rifle, and the Sharp rifle were made also in Connecticut prior to 1861. The Winchester rifle is made at New Haven in large quantities. The Gatling gun is made at the Colt works at Hartford, and ordnance of improved type is made at Bridgeport and Derby.

The fourth of the colonies to engage in the silk culture was Connecticut. This was about 1732. It was almost the only colony to follow it to any notable extent. Mulberry

¹ History of Connecticut, page 295, note.

² Town and City of Waterbury, edited by Joseph Anderson, D. D. Vol. II, pages 263 and 264.

³ American Clock Business, by Chauncey Jerome, page 38 et seq.

⁴ Tenth Census of United States, 1880, Manufactures, page 618.

⁵ Industrial History of the United States, A. S. Bolles, page 255 et seq.

trees, the leaves of which furnished food for the silk worm, were planted at New Haven and Mansfield. In 1763 President Stiles, who afterwards wore a commencement gown of domestic silk, secured the passage of a law by which the colony paid a bounty for the planting of trees and the raising of raw silk. A half ounce of mulberry seed was sent to every town for distribution, but Mansfield was the only place where silk raising became a fixed industry. In 1758 Dr. Aspinwall founded a factory there.¹ Eastern Connecticut was the principal center of the raw-silk industry during the first quarter of the last century. In 1810 the counties of New London, Tolland, and Windham produced raw silk and sewing silk to the value of \$28,503. In 1814 the Hanks mill was started at Mansfield. In 1827-8 the Mansfield Silk Company was established. In 1835 the Connecticut Silk Manufacturing Company was founded at Hartford, but closed after three years.² Silk mills were afterwards located at Windsor Locks and Warehouse Point. In 1838 the Cheney Brothers started in South Manchester, where they still operate one of the largest silk mills in the country.

Elias Howe, jr., the inventor of the sewing machine, early gave his name to a factory at Bridgeport. In 1850 a patent for a different style of machine was issued to Allen B. Wilson. The Wilson machines were first made at Watertown, but in 1856 the factories were removed to Bridgeport, where they are yet in active operation.³

The brass manufactures of Connecticut in Waterbury were built up by the metal-button business, which led to brass making on a large scale. Brass was made in that city before 1749 by John Allyn, as is shown by the inventory of his goods. Hammered brass kettles and brass wire were first made in the United States here or in this vicinity. Prior to 1835 all the pins used in the United States were imported. Twenty years earlier a few pins were made, but were not commercially successful. In order to afford a market for brass wire, automatic machines for the manufacture of pins were brought into use about 1841, the trade being controlled by Waterbury and Birmingham (now Derby). Hooks and eyes were also made. The first Waterbury watch, made by hand, was exhibited January 9, 1878. Since then it has been much improved, and millions have been manufactured.⁴

About the year 1804 a cotton mill was established at Vernon, Hartford county, followed in 1806 by a large mill at Pomfret. According to an official report made to Congress in 1810, Connecticut had at the close of the previous year, 4 mills, excluding 2 then building.⁵

The present large cotton factories had their beginnings after the war of 1812. A mill was built at Jewett City, in 1810, and in 1823 it was bought by Samuel and John Slater, of Rhode Island. It is still in the hands of that

family. In 1825 John Slater bought a mill at Hopeville, on the Pauchaug River. In 1848 Henry and Robert Lippitt bought the Tiffany mill at Danielsonville, and organized the Quinebaug Company. The cotton mills of the state are clustered on the streams that flow into the Thames at Norwich. In Norwich, Thompson, Putnam, Plainfield, Killingly, and Windham are located more than seven-tenths of all the cotton spindles in Connecticut. The great mill at Baltic has been rebuilt by the Ponemah Company, which has large mills on both sides of the Shetucket River, four miles from Norwich, where are made the finest percales and lawns for printing. The large mills at Grosvenor Dale in the town of Thompson were built by John Mason, but in 1845 passed into the possession of Dr. William Grosvenor. The Willimantic Linen Company, at Windham, is in a sense the parent of the great cotton-thread producing corporations of New England.⁶

The first woolen factory in New England was organized at Hartford in 1788. Small mills sprang up here and there, and in 1812 a mill belonging to Aaron Buckland, at Buckland, near Hartford, made blankets for the soldiers. In 1803 Col. David Humphreys bought a privilege in what is now Seymour, imported Merino sheep, and in 1806 built a mill, and founded the New England factory village. In 1812 the Middletown Woolen Manufacturing Company was the first to use steam power.⁷ It made thirty to forty yards daily of cloth worth nine or ten dollars per yard. The largest modern woolen mills are at Rockville, town of Vernon, at Stafford Springs, town of Stafford, in Tolland county; and at Broad Brook, Hartford county. In Connecticut worsteds for men's wear were first made in 1869 at one of the mills in Rockville.

The process of electro-silver plating was invented in Hartford about the year 1846 by the Rogers Brothers—Asa H., William, and Simeon S. A company was formed in 1851.⁸ From this small beginning sprang the plants in Waterbury, Meriden, and other places.

Norwich claims the first paper mill in Connecticut, established in 1768. In 1776 there was a paper mill at East Hartford. In 1860 the Pacific Mills at Windsor Locks and the Chelsea Mills at Norwich were among the largest establishments of the kind in the world. Four-drinier machines were first made in the United States at Windham, in 1830.⁹

Hats were first made in Danbury, by Zadoc Benedict, in 1780. He made 3 per day. Patents were taken out for improving the manufacture as early as 1808, and in 1831 Stephen Hurlburt, of Glastonbury, secured a patent for the hardening of hats upon a cone.⁹ From these small beginnings Danbury's product reached nearly eight millions of dollars in 1900.

The first axe shop in the country is said to have been

¹ History of Connecticut, page 295, note.

² Industrial History of the United States, page 430 et seq.

³ The New England States, Vol. II, pages 967 and 968.

⁴ Town and City of Waterbury, Vol. II, page 262 et seq.

⁵ Eighth Census of the United States, Manufactures, Introduction, page 16 et seq.

⁶ The New England States, Vol. I, page 162 et seq.

⁷ Ibid., page 195 et seq.

⁸ Ibid., Vol. II, page 832.

⁹ Eighth Census of the United States, Manufactures, Introduction, page 121 et seq.

started by Samuel W. and D. C. Collins of Hartford who, in 1826, operated a little trip-hammer shop making 8 axes per day. They afterwards moved to Collinsville.

During the last ten years, automobiles of many kinds have been invented and manufactured, the statistics being included in the classification for carriages and wagons. The bicycle manufacture has risen with innumerable inventions.

A large steel shipbuilding plant is in active operation at Eastern Point, Groton, opposite New London, on one of the best harbors in the country. Just above Norwich, a compressed-air plant—said to be the first of its peculiar kind in the United States—has been hollowed out of the rock on the Quinebang River, with water as the compressor.

The increase in the value of products during the decade from 1890 to 1900 in a number of the leading industries, was: Ammunition, 155.9 per cent; bells, 206.7 per cent; buttons, 17.2 per cent; brass manufactures, 117.5 per cent; carriages and wagons, 16.9 per cent; clocks, 45.8 per cent; corsets, 9.1 per cent; cutlery and edge tools, 85.2 per cent; envelopes, 75.7 per cent; firearms, 31.9 per cent; foundry and machine shop products, 42.6 per cent; fur hats (included in hats and caps in 1890), 7.6 per cent; hardware, 35.9 per cent; hardware, saddlery, 49.7 per cent; hosiery and knit goods, 7.2 per cent; ironwork, architectural and ornamental, 82.4 per cent; musical instruments, pianos and materials, 109 per cent; needles and pins, 138.9 per cent; plated and britannia ware, 26 per cent; rubber and elastic goods, 137.2 per cent; sewing machines and attachments, 92.6 per cent; silk and silk goods, 26.5 per cent; stamped ware, 1,206.6 per cent; and typewriters and supplies, 63.1 per cent.

Connecticut is one of the chief centers of the textile industry, and occupies the same rank as a textile manufacturing state as it did in 1890, with a product in 1900 valued at \$49,265,752, being exceeded only by Massachusetts, Pennsylvania, New York, Rhode Island, and New Jersey. In the cotton manufacture in Connecticut there were, in 1900, 1,001,474 active spindles, an increase from 934,155 spindles in 1890; and 19,550 looms, an increase from 18,933 looms in 1890. The value of the products of its cotton mills was \$15,500,842, substantially the same as in 1890, but in the dyeing and finishing of textiles, the value of products was \$2,269,967, an increase of 217.3 per cent over \$715,388 reported in 1890. In the wool manufacture 222,640 spindles were employed in 1900, contrasted with 184,914 spindles in 1890; and 3,616 looms as compared with 3,640 looms in 1890. The total value of the product of the wool industry was \$22,618,867, compared with \$17,072,398 in 1890; but the returns of 1900 include the product of the fur hat manufacture, valued at \$7,546,882, which was not included in the same classification in 1890. The wool hat manufacture, which was once quite large in Connecticut, has been superseded in that state by the fur

hat manufacture. The hosiery and knit goods manufacture of the state shows increase, the number of knitting machines employed increasing from 1,195 in 1890 to 2,672 in 1900, and the value of the product increasing from \$3,771,567 to \$4,043,977. The silk manufacture shows a product of \$12,378,981, an increase from \$9,788,951 in 1890, or 26.5 per cent.

The aggregate value of the textile products of the state for 1900, eliminating the products of the fur hat manufacture, was \$49,265,752, an increase from \$46,757,780, or 5.4 per cent, showing that Connecticut is more than holding her own in this important branch of her industries.

Out of a total of 9,128 establishments in the state, (as shown by Table 1), 4,153, or 45.5 per cent, were established during the decade. The increase in the total number of establishments since 1890 was only 33.8 per cent, so that the percentage of new plants was much greater than the percentage of total increase. Of the 4,153 established during the decade, 139, or 1.5 per cent of the 9,128, were founded in the census year. The largest number of these new establishments naturally appeared in the small industries or in the hand trades—boots and shoes, custom work and repairing, leading with 417 establishments. The new foundries and machine shops numbered 92; the fur hat establishments, 31; hardware, 17; bicycles and tricycles, 16; brass manufactures, 15; corsets, 13; silk and silk goods, 10; ship and boat building, wooden, 10; cutlery and edge tools, 9; woolen goods, 9; cotton goods, 9; tools, not elsewhere specified, 8; hosiery and knit goods, 5; firearms, 3; worsted goods, 3; and ammunition, 2. This is notable as disclosing an enlargement in number in the leading manufacturing industries of the state.

URBAN MANUFACTURES.

There were 61 cities and towns in Connecticut in which the manufacturing and mechanical industries were considered of sufficient importance to justify their withdrawal from the enumerators, and the appointment of special agents to collect the statistics. The manufacturing establishments located within the corporate limits of such places are considered "urban manufactures."

The presentation of statistics in detail is restricted to those cities having a population of 20,000 or over. There were 6 cities, namely, Bridgeport, Hartford, Meriden, New Britain, New Haven, and Waterbury, falling within this requirement.

The statistics of Bridgeport, Hartford, Meriden, New Haven, and Waterbury were published separately at the census of 1890, and Table 4 is a comparative summary, presenting the totals for each of the 5 cities, together with the per cent of increase during the decade, and also the per cent that the totals for these 5 cities formed of the total for the entire state at the two censuses. New Britain was not separately reported at the census of 1890 and its growth, therefore, can not be shown.

TABLE 4.—COMPARATIVE SUMMARY,¹ BRIDGEPORT, HARTFORD, MERIDEN, NEW HAVEN, AND WATERBURY, 1890 AND 1900, WITH PER CENT OF INCREASE.

	Year.	Number of establishments.	Capital.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Average number.	Total wages.			
The State.....	1900	9,128	\$314,696,786	176,694	\$32,767,725	\$23,089,806	\$185,641,219	\$352,824,106
Per cent of increase.....	1890	6,822	227,004,496	140,514	66,465,317	15,899,101	123,183,080	248,336,364
		83.8	88.6	25.7	24.5	49.9	50.7	42.1
Bridgeport.....	1900	882	33,066,890	19,291	9,128,790	2,564,392	19,133,236	37,883,721
Per cent of increase.....	1890	559	19,786,572	12,116	6,381,103	1,442,378	10,428,987	22,274,635
		48.8	67.1	59.2	48.0	77.8	83.5	70.1
Hartford.....	1900	888	30,500,047	13,833	7,608,809	3,375,585	14,103,167	31,145,715
Per cent of increase.....	1890	513	14,126,282	8,311	4,829,428	886,428	7,964,986	17,164,318
		73.1	115.9	60.8	67.4	280.8	77.1	81.5
Meriden.....	1900	260	16,699,004	7,581	3,702,240	1,085,142	5,861,612	13,485,640
Per cent of increase.....	1890	238	13,712,146	7,301	3,763,984	1,460,571	4,900,594	11,962,172
		9.2	21.8	3.2	1.6	225.7	19.6	12.7
New Haven.....	1900	1,236	30,463,066	20,536	10,016,571	3,181,004	18,493,593	40,762,015
Per cent of increase.....	1890	1,129	19,592,384	15,906	8,185,876	2,696,245	14,400,638	33,396,311
		9.5	55.5	22.4	18.0	28.4	22.1	22.1
Waterbury.....	1900	404	23,421,640	14,914	7,564,198	1,664,050	19,821,401	33,778,905
Per cent of increase.....	1890	219	17,682,500	9,810	4,984,868	1,156,304	8,715,921	17,712,829
		84.5	51.6	51.7	44.0	127.4	127.4	90.7
Total for 5 cities.....	1900	3,620	134,150,647	75,635	33,010,608	11,870,178	77,413,009	157,055,996
Per cent of increase.....	1890	2,658	84,899,884	53,474	23,145,259	7,640,926	46,411,076	102,510,285
		36.2	58.0	41.4	85.1	65.8	66.8	58.2
Per cent of 5 cities to total for state.....	1900	39.7	42.6	42.8	45.9	51.4	41.7	44.5
	1890	39.0	37.4	33.1	42.3	49.6	37.7	41.3

¹ New Britain omitted from comparison; no figures separately reported in 1890.

² Decrease.

The town of Norwich contains a population of 24,637 but the city included therein has a population of only 17,251, and therefore only the totals for all industries in the city are shown.

Of the 6 cities having a population of 20,000 and over (shown by specified industries in Table 8), New Haven ranks first in value of its products, as it did in 1890. The total value for 1900 was \$40,762,015 or 11.6 per cent of the products of the state, as compared with 13.4 per cent in 1890. New Haven has long been the leading manufacturing center of the state. It made nearly one-half of the ammunition in the state in 1900. Under this classification is included a great part of its firearms manufacture, for many firearms are made by the factory producing the ammunition. Both values are large, but the value of the ammunition output is the larger. In reality New Haven leads the state in both firearms and ammunition. New Haven also has a large wholesale slaughtering and meat packing product. Hardware furnishes 5.4 per cent of the city's products; corsets, 4.6 per cent; foundry and machine shop products, 4.2 per cent; fancy and paper boxes, 2.1 per cent; and repair shops of the railroads of the state, which largely center here, 3.9 per cent. The carriage and wagon industry, which was extensive in years past, now constitutes only 3.4 per cent of the city's total output. Other industries of much importance in New Haven are, rubber boots and shoes, rubber and elastic goods, clocks, the manufacture of starch and of iron and steel.

Bridgeport's rank is second as in 1890, with products valued at \$37,883,721, or 10.7 per cent of the total for the state; its per cent in 1890 was 9. Selecting some of the industries, it appears that brass castings and brass finishing constituted 10.9 per cent of the city's products in 1900; corsets, 8.5 per cent; foundry and machine shop products,

6.4 per cent; rubber and elastic goods, 1.7 per cent; and hardware, 1.7 per cent.

Waterbury retains third place, with \$33,778,905, or 9.6 per cent of the products of the state; its per cent in 1890 was 7.1. This city is the great brass manufacturing center of the country. Its products of brassware constitute 24.2 per cent; brass castings and brass finishing, 15 per cent; foundry and machine shop products, 2.9 per cent; and buttons, 1.9 per cent of its total products. Waterbury makes 56.8 per cent of the stamped ware of the state. Other leading industries are lamps and reflectors; clocks; brass and copper, rolled; needles and pins; watches; plated and britannia ware; hardware; and hosiery and knit goods.

Hartford, the great insurance center of the country, has developed into a manufacturing city. It ranks fourth, with products of \$31,145,715, or 8.8 per cent of the total for the state; in 1890 its per cent was 6.9. Among its leading industries are the manufacture of bicycles, the products of which in 1900 amounted to 7.9 per cent of its total products; carriages and wagons, including automobiles, 6.2 per cent; and foundry and machine shop products, 11.9 per cent. The city has a large product in rubber and elastic goods, envelopes, horseshoe nails, plated and britannia ware, and machine screws.

Meriden remains fifth of these cities, with \$13,485,640, or 3.8 per cent of the value of the products of the state; its per cent in 1890 was 4.8. It returns the manufacture of 43.3 per cent of the plated and britannia ware of the state. This industry accounts for 30.6 per cent of the city's products; hardware, 12 per cent; cutlery and edge tools, 3 per cent; and foundry and machine shop products, 2.2 per cent. Gas and lamp fixtures, lamps and reflectors, window shades, musical instruments, pianos and materials,

woolen goods, and house furnishing goods are other important industries.

New Britain, the great hardware center, is sixth in rank, with \$12,260,782, or 3.5 per cent of the value of the products of the state. Hardware forms 47.8 per cent of the city's products; foundry and machine shop products, 5.5 per cent. A large proportion of the cutlery and edge tools, hosiery and knit goods, stamped ware, and saddlery hardware is made here.

These 6 cities are the centers of Connecticut's manufactures; their population aggregated 355,026, or 39.1 per cent of the population of the state in 1900, and the average number of employees in their manufacturing establishments was 84,073, or 47.6 per cent of the total number

in the state. Of the total wages paid these received \$41,851,725, or 50.6 per cent, and the value of their products amounted to \$169,316,778, or 48 per cent of the total for the state. They employed \$148,266,257, or 47.1 per cent of the capital invested, and had 3,846, or 42.1 per cent of the number of establishments.

In order to show the extent of the concentration of the manufactures, the totals for the 61 cities and towns withdrawn from the enumerators are given in Table 5. This table also places the totals for the cities and towns in comparison with the totals for the entire state and the state exclusive of these cities and towns, and shows their rank in products and in population.

TABLE 5.—URBAN MANUFACTURES.

	Number of establishments.	Capital.	Proprietors and firm members.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	PRODUCTS.			POPULATION.		
				Average number.	Total wages.			Value.	Rank.	Per cent of total.	Total.	Rank.	Per cent of total.
Total for state	9,128	\$314,696,786	9,381	176,694	\$82,767,725	\$23,089,806	\$185,641,219	\$352,824,106	-----	100.0	908,420	-----	100.0
Total for urban manufactures	7,975	289,099,474	8,211	161,784	76,288,022	21,260,484	171,982,296	325,981,131	-----	92.4	750,785	-----	82.6
Ansonia.....	94	6,309,281	83	8,407	1,769,861	348,682	15,051,022	18,786,179	5	5.3	12,681	18	1.4
Berlin.....	30	1,915,065	25	996	500,830	70,972	1,242,414	2,222,134	27	0.6	3,448	47	0.4
Bethel.....	47	437,800	54	780	333,252	70,204	592,921	1,229,651	40	0.8	3,327	50	0.4
Branford.....	40	802,721	37	908	426,952	40,871	239,507	917,147	47	0.3	5,706	33	0.6
Bridgeport.....	832	33,066,890	839	19,291	9,123,790	2,564,392	19,133,236	37,838,721	2	10.7	70,996	3	7.8
Bristol.....	143	3,764,528	135	2,476	1,188,943	207,650	2,224,314	4,364,097	19	1.2	9,648	19	1.1
Brooklyn.....	17	1,404,043	18	725	226,824	38,895	851,198	756,235	52	0.2	2,358	60	0.3
Danbury.....	283	3,636,619	344	4,296	2,017,155	406,556	3,542,000	7,213,555	11	2.0	19,474	9	2.1
Derby.....	84	4,328,442	79	2,311	1,116,078	302,878	1,304,256	3,456,561	21	1.0	7,980	23	0.9
East Haddam.....	27	390,850	27	337	104,754	73,616	209,940	482,649	57	0.1	2,485	58	0.3
East Hartford.....	56	866,125	57	439	212,424	32,460	475,047	923,769	45	0.3	6,406	30	0.7
East Windsor.....	26	751,474	24	361	158,775	224,571	1,016,216	1,016,216	43	0.3	3,158	53	0.3
Enfield.....	40	4,022,477	41	1,459	579,853	100,058	1,139,636	2,090,609	30	0.6	6,699	28	0.7
Fairfield.....	42	221,548	47	41	71,727	49,276	319,911	538,225	55	0.2	4,489	38	0.5
Farmington.....	38	554,437	39	553	226,135	54,409	352,143	802,867	50	0.2	3,331	49	0.4
Glastonbury.....	42	1,388,950	41	662	302,944	215,514	698,970	1,523,464	37	0.4	4,260	40	0.5
Greenwich.....	74	1,453,496	76	913	408,556	91,999	764,776	1,541,938	36	0.4	12,172	15	1.3
Griswold.....	30	2,175,383	30	813	329,266	123,772	505,748	1,173,969	41	0.3	3,490	46	0.4
Groton.....	16	59,070	20	94	55,820	6,032	88,731	197,106	61	0.1	5,962	81	0.7
Guilford.....	41	247,715	47	132	89,546	7,561	119,033	238,400	60	0.1	2,785	67	0.3
Hamden.....	25	801,581	25	494	204,010	35,611	373,190	757,239	51	0.2	4,626	37	0.5
Hartford.....	888	30,500,047	950	13,363	7,603,809	3,375,585	14,103,167	31,146,715	4	3.8	79,850	2	8.8
Huntington.....	64	3,121,834	63	1,622	701,333	219,959	2,267,661	3,917,477	20	1.1	5,672	34	0.6
Killingly.....	74	2,174,445	70	1,263	441,033	131,734	811,679	1,705,997	33	0.5	6,335	27	0.8
Manchester.....	98	7,380,806	93	3,118	1,370,656	194,812	3,084,627	5,939,943	12	1.7	10,601	16	1.2
Meriden.....	260	16,699,004	262	7,531	3,702,240	1,085,142	5,861,612	13,485,640	6	3.8	24,296	7	2.7
Middletown.....	188	5,100,485	203	2,916	1,199,713	237,604	2,636,493	4,825,649	17	1.4	17,486	12	1.9
Milford.....	48	865,464	45	325	137,326	15,447	244,282	602,036	56	0.1	3,733	43	0.4
Montville.....	27	1,229,620	29	655	215,810	50,514	388,588	1,252,057	39	0.4	2,395	69	0.3
Naugatuck.....	76	6,673,684	67	3,297	1,665,944	323,834	6,152,981	9,126,199	9	2.6	10,541	17	1.2
New Britain.....	226	14,115,610	232	8,438	3,841,117	956,848	5,074,396	12,260,732	7	3.5	25,998	5	2.9
New Hartford.....	27	870,874	24	1,006	289,244	37,237	1,089,322	1,089,322	42	0.3	3,424	43	0.4
New Haven.....	1,236	30,463,066	1,269	20,536	10,016,571	3,181,004	18,493,593	40,762,015	1	11.6	108,027	1	11.9
New London.....	238	4,522,003	261	2,658	1,196,213	501,879	5,569,615	5,569,615	13	1.6	17,548	11	1.9
New Milford.....	58	733,294	67	526	253,231	62,530	412,697	907,907	48	0.3	4,304	36	0.5
Newtown.....	29	449,505	29	312	146,122	23,737	597,998	878,610	49	0.2	3,276	52	0.4
Norwalk.....	247	4,129,841	265	3,172	1,536,509	296,075	2,261,195	5,097,720	16	1.4	19,932	8	2.2
Norwich.....	273	8,566,437	287	4,411	1,933,600	619,238	4,321,078	8,388,343	10	2.4	24,637	6	2.7
Orange.....	52	1,017,066	52	581	252,425	58,522	1,542,471	2,168,435	29	0.6	6,995	26	0.8
Plainfield.....	51	2,713,962	55	1,205	424,147	42,665	950,313	1,641,078	35	0.5	4,321	35	0.5
Plainville.....	35	399,775	33	337	136,815	17,664	232,538	460,471	59	0.1	2,139	61	0.2
Portland.....	23	463,585	23	407	184,361	9,322	322,432	594,397	53	0.2	3,856	42	0.4
Preston.....	19	650,347	24	264	96,487	33,256	288,890	477,423	58	0.1	2,807	56	0.3
Putnam.....	93	2,019,635	91	1,631	537,087	122,376	1,097,136	1,928,803	32	0.5	7,348	25	0.8
Seymour.....	35	2,143,123	32	833	439,903	45,071	2,092,580	2,947,463	24	0.8	3,541	45	0.4
Southington.....	65	2,783,709	55	1,415	627,604	112,884	797,102	1,994,564	31	0.6	5,890	32	0.6
Stafford.....	75	2,061,474	78	1,061	399,876	105,606	1,347,143	2,177,535	23	0.6	4,237	39	0.5
Stamford.....	185	5,139,195	203	2,841	1,432,540	464,452	2,059,725	4,745,704	13	1.3	18,339	10	2.0
Stonington.....	118	3,733,679	130	1,907	902,740	344,536	1,312,285	3,231,423	23	0.9	8,510	21	0.9
Thomaston.....	23	1,773,944	21	1,164	545,479	95,997	1,456,133	2,374,431	26	0.7	3,300	51	0.4
Thompson.....	19	4,511,388	19	1,766	575,567	62,236	923,432	1,645,476	34	0.5	6,442	29	0.7
Torrington.....	108	6,544,511	112	3,522	1,704,291	408,102	6,637,684	10,017,121	8	2.8	12,453	14	1.4
Vernon.....	123	5,748,445	122	2,419	923,836	413,062	3,245,498	5,499,418	14	1.6	8,483	22	1.9
Wallingford.....	73	5,382,134	63	2,270	1,160,551	263,756	2,813,410	5,238,230	15	1.5	9,001	20	1.0
Waterbury.....	404	23,421,640	382	14,914	7,564,193	1,664,050	19,821,401	33,778,905	3	9.6	45,859	4	5.0
Watertown.....	37	536,524	39	501	166,340	15,801	629,538	936,256	44	0.3	3,100	54	0.3
Westport.....	35	343,948	31	225	101,788	32,129	234,493	556,668	54	0.2	4,017	41	0.4
Winchester.....	133	2,971,423	136	1,746	753,192	169,956	1,529,704	2,923,822	25	0.8	7,763	24	0.9
Windham.....	114	5,856,194	122	2,514	948,041	209,633	1,520,562	3,430,033	22	1.0	10,137	18	1.1
Windsor.....	40	1,016,549	39	482	227,127	35,448	608,427	921,829	46	0.3	3,614	44	0.4
Windsor Locks.....	37	2,117,159	35	631	331,402	87,233	631,735	1,511,768	38	0.4	3,062	53	0.3
Total for state, exclusive of urban manufactures.....	1,153	25,597,262	1,170	14,960	6,479,703	1,829,322	13,668,923	26,842,975	-----	7.6	157,635	-----	17.4
Per cent of urban manufactures to total for state	87.4	91.9	87.5	91.5	92.2	92.1	92.6	92.4	-----	-----	-----	-----	-----

It appears from Table 5 that practically all of the manufacturing establishments of the state were located within the limits of the 61 cities and towns withdrawn from the enumerators and assigned to special agents. The urban manufactures constituted 87.4 per cent of the establishments of the state, used 91.9 per cent of the capital, employed 91.5 per cent of the wage-earners, paid 92.2 per cent of the wages, and produced 92.4 per cent of the products.

Of the withdrawn cities and towns, 24 having a population of less than 20,000 (see Table 9), show a product of over \$2,000,000 each, and may be considered in the order of their rank in this regard.

The city of Ansonia, first in rank, reports products valued at \$18,736,179, or 52.8 per cent more than those of the city of New Britain, the value of whose products is \$12,260,782, and 38.9 per cent greater than those of the city of Meriden, the value of whose products is \$13,485,640. It has fewer wage-earners than either of these cities, but its products consist largely of brass and copper, which greatly increases the total as compared with the miscellaneous products of the two other cities. Its proportion of the state's population is 1.4 per cent, but its proportion of the products is 5.3 per cent. Ansonia is located on the Naugatuck River just above its junction with the Housatonic. It is interesting to consider this city in connection with the city of Derby just below it, and the town of Huntington, which for manufacturing purposes is almost wholly the borough of Shelton and Derby's twin locality. Both Derby and Shelton are at the junction of the Housatonic and Naugatuck rivers and have ample water and railroad connections with important markets. This trio had a population of 26,183, or 2.9 per cent of that of the state, and they produced goods to the value of \$26,110,217, or 7.4 per cent of the manufactures of the state. This proportion is greater by 0.1 per cent than the manufactures of Meriden and New Britain, although these cities exceeded the Ansonia trio in proportion of population by 2.6 per cent.

Torrington ranks second, and that prominence also is largely due to its brass and copper industry, although it has other important manufactures. Torrington and Waterbury were early centers of the brass industry, which continued up the Naugatuck Valley, where plenty of water-power was to be found.

Naugatuck is third in rank. This town is on the Naugatuck River and is one of the principal seats of the rubber goods industry, New Haven and Bridgeport being the others.

Norwich, a thriving town in the eastern part of the state, is fourth. Its principal industry is that of cotton goods, but a variety of foundry and machine shop products are also among its manufactures. Near the city, at Taftville, are the great Ponemah mills, and not far above that Jewett City, where one of the early acquired Slater mills is located. The Baltic cotton mills are also near.

The town of Danbury, in Fairfield county, is fifth in rank. The principal industry is the making of fur hats, which began late in the eighteenth century and has engaged the attention of a growing population ever since.

Manchester, in Hartford county, not far from the city of Hartford, sixth in rank, is the great broad-silk center of the state, although sewing and other silk is made in quantities in New London, Bridgeport, and Vernon, and among the hills and valleys of Tolland and Windham counties.

The city of New London, in the southeastern part of the state, is seventh. It has large silk mills, a woolen mill, foundry and machine shops, and a large biscuit factory, and is engaged in other manufacturing.

Vernon, in Tolland county, in which town is the city of Rockville, is eighth. This town is the great center of woolen and worsted goods, and has been such for many years. Besides woolen and worsted goods for men's wear, sewing silk is made in large quantities, and envelopes and paper.

Wallingford, in New Haven county, within easy reach of New Haven, is ninth in rank. It has for its chief industry the making of plated and britannia ware.

The town of Norwalk, in Fairfield county, close to New York, and directly on the Sound, is the tenth. It claims the distinction of having two cities within its borders. It is one of the centers for the manufacture of fur hats, and also has a large business in foundry and machine shop products, boots and shoes, felt goods, woolen goods, and the manufacture of paper.

The town of Middletown, in Middlesex county, ranks eleventh. The principal industries are cotton goods, silk goods, woolens, rubber and elastic goods, and plated and britannia ware.

The town of Stamford, in Fairfield county, is twelfth. Its chief manufacture is of hardware, including locks and keys of a special pattern that are widely known. It also manufactures dye stuffs and extracts, shirts, and foundry and machine shop products.

The thirteenth in rank in this group is the town of Bristol, in Hartford county. The chief industries are clock making, of which Bristol was one of the early centers, hosiery and knit goods, bells, and foundry and machine shop products.

Huntington (Shelton) is fourteenth and Derby fifteenth. These localities have been treated in a group with the city of Ansonia.

Windham ranks sixteenth. In this town is located the city of Willimantic, one of the cotton-thread centers of the country. The leading industries embrace cotton goods, silk throwing and other forms of silk manufacture, and the manufacture of fine machinery.

The town of Stonington, in New London county, adjoining the Rhode Island boundary and thus receiving some of the surplus of that state's capital and industries, is seventeenth in rank. Its chief industries are the manufacture of cotton goods, silk goods, woolen and worsted goods, printing presses, fertilizers, and shipbuilding, for which it has special advantages.

Seymour, in the county of New Haven, ranks eighteenth. Among several flourishing industries those of greatest relative importance are the manufacture of worsted goods and of edge tools.

Winchester, in which is the borough of Winsted, is situated in Litchfield county and ranks nineteenth. Clocks are its chief product. It is known as one of the early centers in this manufacture, which has made Connecticut famous the world over, and still contributes very largely to the total output. Hardware of many kinds, and undertakers' plated ware are made in large quantities. Hosiery and knit goods and silk goods are also produced.

Thomaston, in Litchfield county, near Waterbury, ranks twentieth. This is one of the early and present centers for the manufacture of clocks, brassware, and cutlery and edge tools.

Berlin, in Hartford county, ranks twenty-first. The principal products are iron and steel frames for buildings and bridges, and brick and tile.

The town of Stafford, in Tolland county, is twenty-second in rank and is a woolen center.

Orange, in New Haven county, adjoining New Haven, ranks twenty-third. Slaughtering and meat packing, pianos, buckles, and cement pipe are its chief industries.

Enfield stands twenty-fourth. In this important town of Hartford county are situated Thompsonville with its large carpet works, and Hazardville with its gunpowder factories.

The statistics of the 8 counties in Connecticut are shown in Table 6. Litchfield county leads in the per cent of increase of total products, or 78.2 per cent; Hartford is second, with 59.3 per cent; New Haven, third, with 55.4 per cent; Fairfield, fourth, with 37 per cent; New London, fifth, with 25.4 per cent; Middlesex, sixth, with 8.5 per cent. Tolland shows a decrease of 15.7 per cent and Windham a decrease of 14.5 per cent. These decreases are due largely to the falling off in the production and value of textiles, which have centered largely in these counties. Some of the factories in these industries have been removed or abandoned; small concerns in other industries have been closed. The tendency of small industries in these counties is to seek cities, or localities elsewhere in the state, from which the markets can be more easily reached.

Table 6 shows the totals of the state by counties.

Table 7 shows the totals of the state by specified industries.

Table 8 shows the totals for the cities of Bridgeport, Hartford, Meriden, New Britain, New Haven, and Waterbury by specified industries.

Table 9 shows the totals for all industries in the cities and towns withdrawn from the enumerators, exclusive of those shown in Table 8.

TABLE 6.—MANUFACTURES

COUNTIES AND MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
1 The State.....	9,128	\$314,696,736	\$19,208,863	\$47,663,187	\$80,177,480	\$167,647,256	9,381	9,981	\$12,286,050	176,694	\$82,767,725
2 Fairfield.....	1,997	54,414,625	3,282,699	6,825,993	14,494,316	29,811,617	2,131	2,111	2,587,507	85,834	16,829,931
3 Hartford.....	1,946	76,054,626	4,291,516	12,487,730	19,079,851	41,096,029	2,008	2,538	3,142,101	37,632	18,682,448
4 Litchfield.....	688	16,589,409	863,536	2,476,843	3,336,410	9,912,620	654	569	673,794	10,209	4,485,665
5 Middlesex.....	376	9,867,270	557,326	1,525,278	2,100,547	5,184,119	833	304	329,659	5,492	2,397,303
6 New Haven.....	2,575	100,801,087	7,239,194	13,182,169	24,111,607	56,768,117	2,555	3,457	4,281,500	58,436	28,959,256
7 New London.....	847	27,668,078	1,679,950	5,195,618	7,698,288	13,094,222	900	556	712,869	14,525	6,227,480
8 Tolland.....	293	9,735,955	510,739	1,810,292	1,907,498	6,007,426	290	177	219,747	4,735	1,760,587
9 Windham.....	456	19,665,686	783,903	4,659,264	7,449,413	6,773,106	460	269	338,973	9,831	3,425,055

TABLE 7.—MANUFACTURES BY

		\$314,696,736	\$19,208,863	\$47,663,187	\$80,177,480	\$167,647,256	9,381	9,981	\$12,286,050	176,694	\$82,767,725
1 All industries.....	9,128	\$314,696,736	\$19,208,863	\$47,663,187	\$80,177,480	\$167,647,256	9,381	9,981	\$12,286,050	176,694	\$82,767,725
2 Agricultural implements.....	5	348,221	37,000	106,850	42,275	162,096	1	19	13,830	154	62,111
3 Ammunition.....	5	4,780,388	174,414	718,497	1,762,200	2,124,677	9	181	268,803	4,134	2,193,270
4 Awnings, tents, and sails.....	26	60,530	200	1,800	8,190	50,340	35	3	2,094	71	39,090
5 Bags, paper.....	3	538,952	106,345	107,046	213,741	106,820	2	8	12,285	108	30,625
6 Belts.....	7	703,571	33,000	115,351	166,069	330,151	4	48	45,151	518	235,248
7 Belting and hose, leather.....	4	1,620,983	25,000	65,000	98,500	1,432,483	2	47	77,088	178	96,581
8 Bicycle and tricycle repairing.....	197	214,830	12,537	14,838	88,467	98,993	223	8	4,842	147	73,056
9 Bicycles and tricycles.....	24	4,215,399	241,675	832,071	1,487,357	1,604,296	12	268	251,091	2,189	1,160,736
10 Billiard tables and materials.....	3	27,888		416	27,473	1,400	3	2	1,400	8	5,638
11 Blacksmithing and wheelwrighting.....	795	1,028,087	213,245	266,509	186,184	362,149	846	4	2,550	705	442,531
12 Bookbinding and blank book making.....	13	45,128	1,000	2,000	20,058	22,070	12	7	6,511	58	25,834
13 Boots and shoes, custom work and repairing.....	594	153,156	18,405	28,243	50,027	63,481	597			157	73,124
14 Boots and shoes, factory product.....	15	789,618	12,700	17,900	117,172	641,846	28	40	38,405	719	297,824
15 Boots and shoes, rubber.....	5	9,590,718	290,400	856,513	1,209,401	7,174,304	107	107	150,896	4,217	1,980,023
16 Bottling.....	141	313,058	43,160	48,775	70,833	150,240	155	10	7,628	170	81,819
17 Boxes, cigar.....	4	9,671	200	1,000	4,300	4,171	5	1	800	25	7,852
18 Boxes, fancy and paper.....	34	1,422,846	50,850	111,156	575,950	684,890	16	92	100,112	1,632	552,575
19 Boxes, wooden packing.....	12	75,439	4,080	14,675	13,839	42,785	13	4	2,040	86	41,715
20 Brass and copper, rolled.....	11	11,900,134	731,489	2,123,964	2,518,401	6,525,280	2	277	882,368	5,303	2,858,013
21 Brass castings and brass finishing.....	26	7,164,071	852,287	857,666	1,088,562	4,270,556	20	169	299,768	4,221	2,221,333
22 Brassware.....	21	6,210,657	698,442	832,690	1,665,230	2,964,295	11	146	215,993	3,123	1,619,009
23 Bread and other bakery products.....	309	2,115,300	291,600	466,395	596,915	763,396	332	205	133,026	1,612	861,258
24 Brick and tile.....	36	1,164,776	325,236	326,871	201,022	311,587	39	50	46,155	839	357,752
25 Brooms and brushes.....	20	65,087	3,330	3,400	11,662	42,295	23	2	2,100	90	34,314
26 Buttons.....	11	532,178	46,400	96,000	164,728	225,050	10	24	30,812	800	303,687
27 Carpentering.....	547	3,002,809	317,635	406,045	364,311	1,914,818	620	115	107,223	4,439	2,744,501
28 Carpets, rag.....	6	11,900	1,500	4,100	2,900	3,400	6			16	6,640
29 Carriage and wagon materials.....	21	801,732	57,475	115,213	201,929	427,775	17	55	70,486	355	190,471
30 Carriages and wagons.....	117	5,016,816	357,694	755,588	601,652	3,205,832	137	137	158,381	2,192	1,293,096
31 Cars and general shop construction and repairs by steam railroad companies.....	9	1,639,134	339,500	246,950	425,412	577,272		100	78,392	1,557	943,503
32 Cheese, butter, and condensed milk, factory product.....	71	274,733	18,238	91,513	76,572	88,360	49	47	24,402	166	84,863
33 Chemicals.....	3	311,399	3,850	21,000	146,849	134,700		12	9,068	45	31,716
34 Cleansing and polishing preparations.....	8	58,598	2,100	15,500	8,595	32,403	6	10	19,200	44	15,745
35 Clocks.....	10	5,065,682	270,578	683,020	1,031,617	3,030,467		123	195,978	3,929	1,907,558
36 Clothing, men's, custom work and repairing.....	431	685,159	20,950	17,640	59,587	536,982	465	27	21,482	886	489,210
37 Clothing, men's, factory product.....	12	158,274	1,300	18,500	5,220	133,254	13	1	500	137	52,322
38 Clothing, women's, dressmaking.....	389	208,966	18,825	35,775	40,791	113,575	425	13	8,555	874	283,985
39 Clothing, women's, factory product.....	14	194,200	15,000	27,500	23,650	128,050	16	13	12,216	494	182,437
40 Coffee and spice, roasting and grinding.....	6	69,765	1,250	2,075	10,100	56,340	6	3	2,699	8	4,948
41 Coffins, burial cases, and undertakers' goods.....	4	298,373	37,655	31,502	42,166	137,050	3	22	21,500	148	61,496
42 Confectionery.....	103	455,135	33,425	78,691	133,064	214,958	119	67	33,658	235	128,954
43 Cooperage.....	4	29,549	8,500	5,400	6,149	9,500	4			18	9,196
44 Cordage and twine.....	7	276,962	7,500	22,800	78,400	168,262	6	4	2,600	245	62,812
45 Cork, cutting.....	3	88,229	2,000	5,000	31,219	50,010	1	7	9,500	83	30,522
46 Corsets.....	24	2,978,598	112,350	436,793	350,396	2,079,059	32	337	442,552	5,755	1,796,198
47 Cotton goods.....	55	27,351,588	832,202	6,778,674	10,307,775	9,432,937	19	281	395,024	13,194	4,893,502
48 Cutlery and edge tools.....	44	5,355,752	423,432	935,571	967,252	3,529,497	21	218	277,805	4,077	2,087,198
49 Druggists' preparations, not including prescriptions.....	22	143,855	11,950	28,300	13,270	89,835	23	18	40,716	101	47,180
50 Dyeing and cleaning.....	29	60,594	11,150	23,275	15,160	11,009	31	6	3,260	61	25,505
51 Dyeing and finishing textiles.....	5	3,243,744	482,100	1,004,388	929,262	827,994		39	100,884	1,300	578,756
52 Electrical apparatus and supplies.....	17	2,513,812	69,400	174,949	422,636	1,846,767	8	142	170,490	961	405,604
53 Electrical construction and repairs.....	25	77,562	2,050	5,050	9,505	60,957	30	12	7,430	88	51,868
54 Electroplating.....	12	23,663	100	1,200	12,517	9,846	15	1	900	35	16,773
55 Engraving and dieinking.....	14	26,000	2,050	1,100	17,250	5,600	15			19	10,054
56 Engraving, steel, including plate printing.....	4	4,000			1,800	2,200	4			6	2,984

BY COUNTIES : 1900.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
130,610	\$69,227,497	42,605	\$12,873,190	3,479	\$667,038	\$23,089,806	\$1,621,578	\$1,884,047	\$16,580,497	\$3,553,689	\$185,641,219	\$180,550,473	\$5,090,746	\$352,824,106	1
25,538	18,894,569	9,829	2,898,512	467	96,850	4,440,709	372,316	178,959	8,442,653	446,781	33,343,386	32,400,492	942,894	67,279,450	2
30,024	16,502,556	7,129	2,077,192	479	102,700	6,116,699	848,153	327,787	3,791,030	1,649,779	33,899,667	32,723,831	1,110,836	72,224,816	3
7,785	8,815,186	2,114	611,210	310	59,269	1,018,283	114,857	72,751	725,780	104,895	13,010,043	12,006,545	403,498	21,459,964	4
4,028	1,985,217	1,283	379,209	181	82,877	490,203	25,608	58,744	346,889	58,962	4,825,744	4,690,120	135,624	9,292,586	5
44,178	24,478,079	13,407	4,805,578	851	174,999	7,446,577	541,808	503,740	5,493,528	908,501	75,301,960	73,538,473	1,763,482	134,069,983	6
10,500	5,101,789	3,624	1,057,771	401	87,920	2,315,547	131,287	104,556	1,792,919	286,735	13,318,315	12,914,678	403,637	26,538,839	7
2,900	1,248,058	1,648	480,268	187	32,261	601,811	24,561	46,978	471,309	58,933	5,810,909	5,682,443	128,466	9,792,609	8
5,657	2,261,443	3,571	1,063,450	603	100,162	659,977	82,953	91,582	466,389	89,053	6,191,195	5,988,886	202,309	12,166,297	9

SPECIFIED INDUSTRIES : 1900.

154	62,111					9,961	460	2,519	6,082		76,132	67,640	8,492	194,746	2
2,614	1,727,124	1,509	468,205	11	2,941	919,039	240	32,658	886,141		5,200,307	5,165,876	94,431	9,823,712	3
48	25,713	23	7,377			5,996	4,171	132	1,693		55,093	54,262		130,784	4
31	14,813	77	15,812			12,687	1,600	749	10,388		174,501	172,371	1,930	353,361	5
462	216,385	64	18,852	2	511	62,128	1,260	3,899	56,979		417,959	403,793	12,166	866,846	6
166	93,170	7	1,976	5	1,485	20,053	1,986	2,756	15,311		903,229	901,766	4,463	1,224,182	7
143	72,325	3	150	3	581	29,443	20,515	677	7,606	645	147,092	141,972	5,120	386,657	8
1,995	1,107,485	104	34,662	40	8,589	323,629	26,653	15,656	277,866	8,454	1,720,249	1,684,834	35,415	3,672,225	9
7	5,328	1	360			1,461	1,250	71	140		48,031	47,865	166	10,819	10
763	442,231			2	300	72,634	51,034	5,947	14,884	769	476,396	450,440	25,956	1,691,878	11
33	18,388	22	7,044	3	402	4,204	2,626	285	1,318	75	36,527	36,187	340	94,517	12
156	72,969			1	165	56,905	50,877	698	5,208	122	184,519	177,800	6,719	606,419	13
456	221,629	254	74,982	9	1,285	117,372	7,691	1,979	72,702	85,000	986,555	979,892	6,663	1,517,361	14
2,461	1,326,809	1,739	653,826	17	5,388	405,852	11,000	40,417	354,485		7,176,701	7,105,073	71,628	11,999,083	15
164	80,227	5	1,442	1	150	10,955	13,985	1,896	20,807		459,056	456,867	2,188	774,938	16
9	3,100	16	4,752			1,296	1,010	80	256		18,137	17,753	384	84,887	17
552	265,508	1,028	278,344	52	8,724	68,306	29,894	4,776	33,636		921,522	907,914	13,608	2,057,449	18
78	37,131	13	4,584			9,029	3,320	574	4,863	772	104,586	101,773	2,813	180,191	19
4,980	2,700,292	312	94,125	16	3,595	610,104	650	60,816	548,698		24,133,559	23,613,538	515,021	29,787,282	20
3,492	1,968,631	686	243,482	43	9,220	367,656	4,488	30,809	326,558	5,801	5,770,875	5,592,341	178,534	9,470,427	21
2,319	1,368,127	699	233,854	105	17,628	355,208	8,394	26,228	319,873	1,213	6,281,536	6,127,384	154,152	9,269,159	22
1,383	797,971	207	58,163	22	5,124	326,397	67,339	10,149	248,909		2,914,802	2,837,542	77,260	5,208,694	23
878	355,053	97	1,970	4	729	44,697	4,130	5,412	35,155		133,809	121,807	111,912	725,359	24
67	28,107	23	6,207			3,031	1,495	295	1,241		64,119	63,131	988	133,899	25
805	169,768	460	182,018	35	3,906	117,643	8,979	3,651	37,751		430,187	418,327	11,360	1,087,285	26
4,436	2,743,621	3	880			1,896,826	38,275	12,918	90,394	1,755,299	4,988,943	4,965,783	23,160	11,390,681	27
14	5,740		900			886	630	46	210		2,448	2,190	258	13,150	28
351	180,444	4	1,027			64,492	7,610	4,206	41,469	11,117	412,708	402,236	10,412	863,010	29
2,184	1,294,443	7	3,445	1	208	161,571	22,728	18,889	117,547	2,407	1,532,351	1,480,907	51,384	4,205,723	30
1,551	941,296	6	2,207			41,379			41,879		1,366,281	1,352,111	14,170	2,430,056	31
161	83,793	4	1,020	1	50	21,266	2,508	1,376	14,320	3,062	881,614	872,872	8,742	1,093,703	32
45	31,716					8,877	4,000	603	4,269		105,105	95,881	9,224	290,320	33
32	12,003	12	3,742			9,875	639	150	9,086		35,702	35,143	559	103,437	34
2,969	1,561,181	338	318,278	122	28,089	240,304	650	22,791	217,863		1,825,425	1,791,916	33,510	4,545,047	35
754	451,724	117	35,278	15	2,208	262,089	87,222	2,596	26,735	145,536	838,397	827,208	11,194	2,144,401	36
68	35,866	69	16,956			5,732	2,227	285	3,145	125	157,227	156,844	383	279,850	37
76	47,768	793	235,632	5	585	56,378	44,360	1,080	6,678	4,230	406,998	399,404	7,594	1,071,418	38
58	35,410	436	146,927			12,717	4,600	819	7,218	80	225,498	225,511	1,987	614,855	39
7	4,636	1	312			6,885	1,370	392	3,123		125,818	123,803	2,015	165,974	40
106	50,506	42	10,900			3,798	300	1,373	2,120		132,821	130,975	1,846	274,618	41
207	107,841	74	20,707	4	406	70,835	23,650	2,497	39,688		458,700	443,458	10,242	942,480	42
18	9,196					886	260	283	343		17,361	16,969	392	32,048	43
132	39,076	110	23,196	3	540	6,023	387	1,362	4,274		178,895	176,699	2,196	284,713	44
63	26,446	17	3,670	3	406	12,471	4,050	473	7,948		61,043	57,507	3,536	131,011	45
603	325,627	5,083	1,432,321	119	37,250	268,492	9,183	17,796	241,513		8,179,304	3,144,738	34,566	6,846,964	46
6,918	2,649,147	5,344	1,591,688	932	152,667	1,288,506	14,558	127,917	1,092,427	53,604	7,535,926	7,293,305	242,621	15,489,442	47
3,696	1,972,032	323	90,466	58	24,700	335,952	5,109	33,388	295,286	2,178	1,904,968	1,825,961	79,007	5,362,620	48
51	27,086	50	20,094			91,640	1,103	723	77,764	12,050	110,384	106,147	4,237	355,455	49
35	17,996	25	7,365	1	144	3,023	6,052	232	1,744		14,060	11,700	2,360	76,557	50
1,015	507,632	238	61,689	47	9,435	216,075		16,084	192,063	7,928	907,377	785,642	121,735	2,269,367	51
600	336,112	270	69,307	1	185	222,400	7,240	4,797	210,063	300	1,973,715	1,954,315	19,400	3,167,842	52
88	51,868					7,327	3,454	580	3,283		168,529	168,032	427	288,523	53
35	16,773					3,410	2,799	107	504		8,554	6,845	1,709	47,302	54
18	9,954			1	100	2,950	1,489	75	816	570	2,622	1,993	6,615	98,615	55
4	2,320	2	664			1,124	840	6	228	50	2,570	2,465	105	13,000	56

TABLE 7.—MANUFACTURES BY

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
57 Engraving, wood	8	\$8,550			\$2,675	\$5,875	10	1	\$860	13	\$11,575
58 Envelopes	4	1,570,369	\$112,800	\$809,724	653,300	495,045		44	48,071	589	260,300
59 Fancy articles, not elsewhere specified	6	199,429	2,000	13,640	28,316	155,473	5	19	28,315	129	40,811
60 Fertilizers	9	382,513	30,000	48,669	66,766	237,033	8	80	28,063	133	53,708
61 Files	4	18,928	1,250	2,400	3,900	11,378	5	2	1,200	24	11,140
62 Firearms	8	2,325,140	134,000	483,000	898,602	1,309,538	4	51	73,575	1,144	725,938
63 Flavoring extracts	9	87,786	100	150	1,480	36,056	10	8	6,100	18	6,750
64 Flouring and grist mill products	208	1,565,478	204,677	484,477	800,394	625,930	243	42	26,621	233	99,309
65 Food preparations	7	111,919	45,810	20,650	14,278	31,181	3	11	7,144	50	19,875
66 Foundry and machine shop products	260	23,020,068	1,501,540	3,861,638	5,761,976	11,895,064	198	786	1,101,832	12,646	6,948,309
67 Fruits and vegetables, canning and preserving.	6	91,463	2,450	21,232	29,496	38,285	2	7	3,260	100	24,967
68 Fur goods	19	94,393	4,800	3,600	6,121	79,372	21	6	2,820	69	31,572
69 Fur hats	58	3,197,551	113,788	823,888	714,116	2,046,259	85	173	172,780	4,863	2,414,561
70 Furnishing goods, men's	3	25,458	300	4,000	6,109	14,549	2	5	2,412	61	17,216
71 Furniture, cabinetmaking, repairing, and upholstering.	123	222,334	24,350	17,650	55,643	124,691	140	15	10,787	261	136,435
72 Furniture, factory product	9	277,274	12,000	30,900	60,367	174,007	9	24	20,162	208	100,715
73 Gas and lamp fixtures	4	1,350,405	56,100	150,228	208,914	935,163	2	54	73,230	859	413,626
74 Gas, illuminating and heating	21	7,905,946	619,043	649,105	5,551,596	1,086,202	184	184	117,288	354	231,102
75 Glass, cutting, staining, and ornamenting.	8	100,483	1,000	2,000	17,600	79,883	10	9	8,334	122	56,127
76 Grease and tallow	13	97,696	10,725	30,500	29,350	27,121	14	4	4,600	50	24,396
77 Hair work	11	6,080	500	300	1,055	3,225	11	1	150	13	3,953
78 Hand stamps	7	19,825			5,900	13,925	8	2	840	5	2,060
79 Hardware	63	21,694,351	1,375,906	3,166,560	5,386,115	11,765,770	39	827	938,668	12,056	5,664,046
80 Hardware, saddlery	8	755,083	58,234	137,486	149,798	409,565	6	42	65,630	724	312,804
81 Hat and cap materials	14	441,553	50,200	67,604	119,302	204,447	21	6	6,050	298	101,741
82 Hats and caps, not including fur hats, and wool hats.	15	94,595			28,079	71,516	18	3	3,300	397	150,738
83 Hosiery and knit goods	25	6,149,338	160,000	632,590	1,306,134	4,050,614	12	101	159,300	3,243	1,131,078
84 House furnishing goods, not elsewhere specified.	7	2,709,941	145,500	452,295	523,500	1,588,646	5	63	115,387	721	302,046
85 Ice, artificial	5	316,722	47,000	71,843	171,843	26,036	5	15	17,681	88	21,041
86 Instruments, professional and scientific	5	143,453	15,200	20,600	21,650	77,033	2	13	23,909	126	65,417
87 Iron and steel	8	4,986,147	424,101	582,827	1,602,916	2,376,308		74	109,875	1,828	959,825
88 Iron and steel, bolts, nuts, washers, and rivets.	13	1,337,986	44,077	181,086	465,031	677,792	10	51	80,207	1,164	442,663
89 Iron and steel, forgings	10	1,522,189	73,137	156,026	365,920	927,105		36	47,438	336	169,162
90 Iron and steel, nails and spikes, cut and wrought, including wire nails.	4	1,208,201	39,185	187,925	370,432	567,629		123	113,800	423	130,545
91 Ironwork, architectural and ornamental.	6	1,205,813	22,300	97,600	218,520	366,393	6	32	81,515	541	309,979
92 Ivory and bonework	4	113,313	3,900	37,439	20,843	51,631	2	7	6,330	97	39,451
93 Kaolin and other earth grinding	4	57,153	600	3,430	32,000	21,123	3	1	750	45	17,719
94 Lamps and reflectors	9	2,218,695	120,334	243,618	412,362	1,442,331	4	98	159,554	1,620	711,729
95 Leather goods	5	11,035	800	550	6,400	6,400	5			4	2,320
96 Leather, tanned, curried, and finished	7	639,408	65,500	97,209	59,342	417,357	10	12	13,506	179	90,058
97 Lime and cement	11	250,392	71,720	65,550	26,915	86,207	10	12	9,640	171	71,038
98 Liquors, distilled	15	200,442	12,235	44,450	44,425	99,272	16	4	5,000	20	11,205
99 Liquors, malt	20	3,108,778	193,761	958,722	804,297	1,151,998	20	81	132,897	344	278,946
100 Lock and gun smithing	27	37,137	100	300	13,175	23,562	28	2	700	27	14,659
101 Looking-glass and picture frames	37	120,592			8,637	111,955	42	8	4,970	47	27,629
102 Lumber and timber products	200	1,183,965	355,102	108,088	309,640	416,135	249	30	16,296	788	306,915
103 Lumber, planing mill products, including sash, doors, and blinds.	40	1,909,945	399,540	186,727	249,533	1,074,090	39	88	84,365	776	406,102
104 Marble and stone work	50	904,396	229,265	134,424	256,321	284,386	55	32	27,255	1,066	483,811
105 Masonry, brick and stone	233	1,404,277	218,323	154,492	161,036	870,426	269	77	71,536	2,384	1,525,239
106 Mattresses and spring beds	11	116,273	7,600	6,300	32,804	69,569	13	9	9,250	84	33,452
107 Millinery and lace goods	6	65,750	1,000	1,000	14,950	48,800	8	3	2,080	105	37,778
108 Millinery, custom work	237	541,350	26,500	41,250	18,249	455,351	277	43	12,911	673	255,153
109 Mineral and soda waters	74	313,832	39,100	58,325	134,634	86,773	89	16	10,100	162	73,477
110 Models and patterns	16	30,370	2,200	1,500	13,700	12,970	17			37	23,212
111 Monuments and tombstones	65	322,238	57,125	43,000	41,236	180,377	75	19	11,857	274	171,463
112 Mucilage and paste	3	9,661	1,500	900	2,712	4,549	5			4	2,000
113 Musical instruments, organs and materials.	5	81,250	1,400	6,700	11,500	61,650	6	14	13,900	79	44,145
114 Musical instruments, pianos and materials.	10	3,605,205	85,564	337,851	292,762	2,789,023		70	131,307	1,784	845,621
115 Needles and pins	13	2,250,021	48,200	151,200	370,371	1,680,250	10	62	87,841	1,238	533,293
116 Oil, essential	5	65,500	11,700	32,100	11,200	10,500	4	2	2,000	8	2,957
117 Oil, not elsewhere specified	3	5,613			513	5,100	2			3	1,100
118 Optical goods	7	29,455			5,365	24,090	12	1	600	13	6,445
119 Painting, house, sign, etc	423	738,526	46,130	69,830	94,294	523,222	466	44	30,222	1,608	968,251
120 Paper and wood pulp	49	3,968,152	445,655	1,048,294	1,236,672	1,237,531	36	115	151,600	1,425	633,413
121 Paper hanging	25	67,530	1,160	725	6,035	59,610	25	16	10,320	170	102,023
122 Patent medicines and compounds	46	615,149	46,824	79,291	67,977	421,057	38	117	114,030	153	72,111
123 Paving and paving materials	52	447,732	72,060	42,710	132,740	200,272	56	41	43,913	605	274,770
124 Perfumery and cosmetics	5	113,335	200	1,200	8,265	102,670	3	20	11,520	40	7,580
125 Photography	110	137,348	6,450	10,000	105,013	65,885	124	12	7,108	111	55,929
126 Lithographing and photoengraving.	6	62,959			20,333	42,626	6	7	6,656	38	19,343

SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.		
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.			
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.											
18	\$11,575					\$2,646	\$895	\$16	\$470	\$1,265	\$1,566	\$1,462	\$104	\$27,195	57	
201	121,057	384	\$138,855	4	\$388	80,189		7,463	72,726		929,926	929,046	9,880	1,482,317	58	
55	24,685	70	15,646	4	480	18,022	1,810	465	16,157	90	90,862	88,782	2,080	215,229	59	
113	48,819	20	5,889			19,754	400	1,164	18,190		228,242	221,824	6,418	390,805	60	
24	11,140					1,390	508	97	725	60	3,503	3,172	331	27,209	61	
1,141	724,982	2	800	1	156	156,665	5,402	9,796	139,867	1,600	300,152	286,510	22,642	1,476,870	62	
5	3,000	13	3,750			9,611	1,146	71	8,804		68,546	62,972	574	107,800	63	
227	97,654	6	1,755			32,083	8,989	10,389	17,330	425	1,845,545	1,824,506	21,039	2,268,859	64	
16	8,887	34	11,488			19,542	1,272	589	17,681		42,844	40,744	2,100	130,952	65	
12,333	6,872,781	229	60,578	79	14,950	1,097,036	74,651	98,704	898,707	24,974	6,688,689	6,222,338	461,351	18,991,079	66	
35	12,203	64	12,614	1	150	1,985		200	1,785		81,887	80,719	1,168	124,280	67	
21	16,411	48	15,161			12,707	4,487	402	5,818	2,000	71,857	71,331	526	162,280	68	
3,405	1,966,174	1,458	447,029	5	1,858	392,152	30,864	11,979	313,688	35,626	3,685,748	3,565,864	119,884	7,546,882	69	
8	3,840	52	13,106	1	270	2,347	180	50	2,117		41,081	40,706	375	100,279	70	
249	132,872	11	3,393	1	200	21,892	19,940	1,096	8,866	1,900	196,190	192,107	4,083	512,797	71	
199	98,065	9	2,950			27,698	2,747	788	19,563	4,600	258,533	251,524	2,009	488,738	72	
722	377,946	86	24,980	51	10,700	49,972	180	8,575	41,217		848,825	848,825	19,449	987,777	73	
354	231,102					332,398	33,975	61,258	237,170		362,248	338,606	23,642	1,421,014	74	
81	44,677	41	11,550			4,447	2,369	518	1,560		47,926	46,461	1,465	142,572	75	
50	24,896					8,106	1,045	894	6,667		236,084	231,885	4,199	328,262	76	
1	780	12	3,173			2,712	2,490	25	197		7,573	7,431	142	23,055	77	
10,099	5,156,178	1,631	440,696	326	67,172	4,315	1,493	56	2,731	35	7,061	6,818	243	26,097	78	
574	278,025	148	34,574	2	205	1,333,779	15,489	99,173	1,203,117	16,000	6,576,620	6,305,849	270,771	16,301,198	79	
240	86,587	56	14,754	2	400	118,765	1,900	5,927	107,938		393,571	368,503	30,068	1,022,856	80	
162	76,750	234	73,788	1	200	23,570	3,510	1,958	18,102		365,954	350,648	9,306	587,819	81	
966	447,414	2,181	666,697	96	17,067	15,298	9,012	503	4,838	900	306,680	309,776	5,804	551,190	82	
525	254,324	187	45,673	9	2,049	205,658	12,370	23,990	154,698	14,600	2,202,640	2,155,037	47,603	4,043,977	83	
38	21,041					131,922	670	7,458	111,799	12,000	1,302,730	1,287,722	15,008	2,237,770	84	
49	29,081	77	26,336			11,868	750	1,544	9,069		16,014	14,548	11,466	95,304	85	
1,813	956,465	12	2,587	3	773	29,048	120	876	19,462		49,903	45,546	1,357	187,598	86	
948	390,273	197	48,539	19	3,854	198,067		21,831	176,236		2,348,411	2,058,771	289,640	4,818,541	87	
332	168,006	4	1,156			47,938	440	5,267	42,231		539,270	506,501	32,769	1,330,083	88	
273	142,883	155	87,662			30,279	3,373	4,330	21,976	600	206,184	181,623	24,561	533,673	89	
533	308,179	8	1,800			161,193	600	4,940	155,658		299,097	289,955	9,142	1,157,721	90	
77	33,267					36,425	200	1,812	31,000	3,353	1,093,609	1,076,787	16,822	1,729,976	91	
45	17,719	20	6,184													
1,027	493,242	560	205,133	33	13,354	4,658	6,000	486	4,172		75,385	73,619	1,766	146,200	92	
4	2,320					8,538	1,250	9,873	2,117		31,152	26,772	4,380	82,887	93	
168	87,158	11	2,900			186,742	495	9,873	125,619		1,176,163	1,149,873	26,280	2,376,348	94	
171	71,938					1,189	495	24	670		8,098	7,954	144	17,575	95	
20	11,205					23,087	1,000	2,337	19,250		631,399	674,725	6,674	891,478	96	
342	278,781	2	165			21,932	447	1,205	8,547	11,733	148,752	89,747	59,005	286,640	97	
923	13,159	3	1,200	1	300	179,152	862	178,290	49,471		42,068	42,068	7,493	292,057	98	
45	26,904	1	575	1	150	1,156,308	5,800	21,146	1,129,302		689,555	588,776	55,779	2,652,819	99	
788	306,915					4,478	3,638	153	632		18,518	12,679	839	54,408	100	
776	406,102					9,775	6,723	357	2,245	450	104,130	103,216	914	187,881	101	
1,058	482,511					36,799	2,664	5,693	24,342	4,100	902,391	902,391		1,818,643	102	
2,870	1,524,129					86,795	7,721	10,469	68,605		1,510,940	1,499,743	11,197	2,293,810	103	
70	29,059	14	4,393	8	1,300	20,840	5,979	3,884	8,612	2,365	307,699	292,162	15,537	997,272	104	
5	3,437					781,284	13,516	6,193	66,214	645,361	1,954,890	1,947,234	7,656	5,024,872	105	
24	11,798	100	34,341	7	1,110	13,307	3,087	667	9,262	1,590	99,831	97,737	2,094	214,542	106	
162	78,477	645	242,587	4	768											
36	23,012					4,513	2,635	333	1,540		142,386	142,001	385	234,323	107	
274	171,468					89,459	63,081	3,197	21,146	2,035	826,392	819,248	7,144	1,540,513	108	
4	2,000					31,433	7,963	1,952	21,518		159,063	155,101	3,962	437,410	109	
73	41,767	5	1,774	1	604	3,224	2,540	113	571		13,377	11,653	1,724	60,898	110	
1,656	818,470	124	31,362	4	789	21,612	2,409	2,409	8,807	6,272	207,432	204,155	3,277	541,087	111	
581	321,207					422	180	24	218		7,210	6,884	326	14,961	112	
7	2,503	566	195,828	91	16,258	8,880	2,100	170	5,510	1,100	50,172	48,105	2,067	138,952	113	
3	1,100					162,433	3,975	12,863	194,257	11,333	1,520,203	1,486,625	33,573	3,256,816	114	
13	6,445					177,508	73,800	10,145	88,344	714	708,323	695,194	13,129	1,761,806	115	
1,584	962,081					2,260	10	235	1,615	400	29,208	28,958	250	45,530	116	
1,157	562,523					1,735	450	10	1,275		6,464	6,451	13	13,620	117	
170	102,028	22	5,620	2	550	6,072	2,780	188	2,154		30,156	29,623	528	59,393	118	
111	58,554	263	70,890			71,298	39,135	3,185	27,333	1,640	637,053	631,950	5,103	2,315,560	119	
605	274,770					279,962	3,255	19,521	256,962	200	1,982,080	1,770,328	211,752	3,565,021	120	
7	2,430					11,037	5,867	389	5,331		82,353	81,794	559	242,124	121	
71	41,164					175,166	7,428	5,792	159,038	2,908	303,386	295,429	7,957	887,120	122	
32	18,462	33	5,130			27,104	4,389	2,638	18,522	1,555	362,621	350,220	12,401	877,952	123	
		88	14,436	2	279	72,541	715	76	71,750		43,398	43,222	176	198,629	124	
		6	1,391			44,221	32,987	760	9,329	1,145	97,822	94,234	3,588	858,528	125	
						9,364	1,436	270	6,698	960	10,679	9,432	1,247	54,916	126	

TABLE 7.—MANUFACTURES BY

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and imple-ments.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
127 Pickles, preserves, and sauces	6	\$45,979	\$3,350	\$6,500	\$5,720	\$30,409	10	9	\$4,442	36	\$13,090
128 Plastering and stuccowork	18	14,650	1,850	725	3,335	9,240	23			47	20,433
129 Plated and britannia ware	26	18,067,209	487,710	1,745,832	3,456,194	7,377,473	3	253	506,562	4,491	2,293,017
130 Plumbers' supplies	5	774,388	34,333	71,667	123,505	589,833	54	54	28,324	312	162,761
131 Plumbing, and gas and steam fitting	334	1,767,934	111,175	168,975	230,399	1,247,885	373	151	104,483	1,775	1,050,288
132 Pottery, terra cotta, and fire-clay products	8	233,862	32,450	94,097	56,323	100,992	3	18	23,201	138	65,036
133 Printing and publishing, book and job	153	1,988,754	144,600	226,380	808,559	309,215	151	182	112,359	980	501,405
134 Printing and publishing, newspapers and periodicals	116	2,289,658	199,600	309,243	1,098,395	681,920	85	283	285,655	1,151	703,587
135 Printing materials	3	29,200			15,200	14,000	4			12	6,792
136 Roofing and roofing materials	22	59,368	8,000	6,300	7,985	37,683	27	2	562	72	40,923
137 Rubber and elastic goods	22	6,094,867	334,447	343,200	1,355,131	3,562,089	8	255	303,532	3,006	1,136,162
138 Saddlery and harness	157	434,339	17,945	60,900	52,474	303,070	24	24	13,152	356	181,651
139 Sausage	11	26,341	700	1,000	14,250	10,391	12	1	780	26	14,330
140 Saws, machine	4	1,182,061	39,000	161,619	322,404	659,038	1	25	32,374	562	286,553
141 Sewing machine repairing	3	1,675			115	1,660	4			1	250
142 Sewing machines and attachments	7	5,216,570	169,256	466,810	797,252	3,783,252	3	53	37,563	2,104	1,176,622
143 Ship and boat building, wooden	35	601,871	121,900	118,730	80,939	280,302	37	12	14,012	915	451,086
144 Shirts	18	415,473	75,100	100,225	96,557	143,591	15	22	28,796	803	242,317
145 Shoddy	7	494,074	30,050	66,650	67,651	329,723	13	8	3,191	118	44,163
146 Silk and silk goods	38	12,166,775	282,294	1,597,352	2,061,799	8,225,330	23	323	403,423	6,514	2,392,373
147 Slaughtering and meat packing, whole-sale	5	411,750	51,500	104,500	60,250	195,500	8	30	31,752	368	167,925
148 Slaughtering, wholesale, not including meat packing	7	150,314	25,500	51,885	5,460	67,969	5	7	4,910	12	6,314
149 Smelting and refining, not from the ore	6	66,925	10,500	11,600	9,950	34,875	5	4	3,680	103	55,849
150 Soap and candles	16	558,955	19,450	94,714	75,309	369,482	14	36	27,350	155	61,932
151 Sporting goods	4	327,641	24,000	36,000	117,900	149,741	12	17	18,678	220	125,680
152 Springs, steel, car, and carriage	3	117,700	43,500	32,300	5,200	36,700	1	4	7,800	51	36,648
153 Stamped ware	14	1,375,677	75,250	195,773	419,316	684,333	7	52	85,418	1,562	639,628
154 Starch	8	377,400	13,900	21,950	157,845	177,705	7	92	57,180	113	40,128
155 Steam fittings and heating apparatus	7	537,761	27,000	67,571	97,236	345,944	2	33	50,470	224	118,119
156 Stereotyping and electrotyping	4	47,142			25,605	21,537	5	6	3,780	57	39,976
157 Surgical appliances	4	8,500	350	550	2,650	4,950	5			4	2,040
158 Tinsmithing, coppersmithing, and sheet-iron working	107	429,550	33,700	68,520	75,247	252,033	104	37	23,302	437	260,976
159 Tobacco, cigars and cigarettes	216	863,591	25,010	61,050	29,494	748,037	233	26	28,955	1,032	570,341
160 Tobacco, stemming and rehandling	3	43,050	400	2,500	150	40,000	4	2	372	26	8,705
161 Tools, not elsewhere specified	27	671,755	44,575	136,422	209,497	281,261	33	34	33,178	463	227,349
162 Toys and games	9	261,108	8,200	40,800	41,185	170,923	9	15	15,106	177	69,695
163 Trunks and valises	4	24,800			4,300	20,500	3	1	210	34	15,010
164 Typewriters and supplies	4	1,142,454	66,850	75,500	423,217	570,837	1	24	39,104	698	374,452
165 Umbrellas and canes	5	64,555	2,000	8,000	13,350	36,205	5	5	4,065	70	29,363
166 Upholstering materials	4	155,230	17,025	31,025	60,365	46,865	1	13	11,127	115	41,877
167 Varnish	8	373,932	22,400	25,454	25,072	301,036	6	17	21,550	32	19,250
168 Vinegar and cider	67	116,537	10,077	32,094	46,777	27,609	73			46	17,331
169 Watch and clock materials	5	44,284	5,775	7,230	17,337	13,942	3	1	400	27	15,956
170 Watch, clock, and jewelry repairing	223	171,639	7,880	9,520	66,265	87,994	252	2	600	155	97,331
171 Window shades	3	660,761	4,536		288,789	367,436	4	9	10,430	266	100,617
172 Wirework, including wire rope and cable	21	1,320,498	105,660	262,968	404,782	547,038	22	51	74,274	791	349,997
173 Wood, turned and carved	32	314,243	30,972	60,735	103,357	119,129	34	12	9,566	210	92,703
174 Woolen goods	51	9,140,066	395,956	1,458,743	2,012,192	5,278,165	46	144	191,357	4,663	1,760,917
175 Worsted goods	10	5,054,659	266,900	492,203	349,305	3,446,246	1	56	121,733	2,198	846,901
176 All other industries	101	15,565,236	594,882	2,005,635	4,377,002	8,587,717	34	327	497,175	5,588	2,595,932

¹ Embraces artificial limbs, 1; bags, other than paper, 1; baskets, and rattan and willow ware, 2; belting and hose, rubber, 1; blacking, 2; blueing, 1; bone, ivory, and lampblack, 1; brass, 2; bridges, 2; bronze castings, 2; cardboard, 1; card cutting and designing, 1; carpets and rugs, other than rag, 2; carriages and sleds, children's, 2; cars and general shop construction and repairs by street railroad companies, 2; charcoal, 1; cheese and butter, urban dairy products, 1; china decorating, 1; combs, 1; copper, smelting and refining, 2; cordials and syrups, 1; cotton small wares, 2; crucibles, 1; dentists' materials, 1; dye stuffs and extracts, 2; emery wheels, 2; enameling and enameled goods, 2; explosives, 1; felt goods, 2; fireworks, 2; furs, dressed, 1; gas machines and meters, 2; gas and oil stoves, 1; gloves and mittens, 1; glue, 1; gold and silver, leaf and foil, 2; gold and silver, reducing and refining, not from the ore, 1; hammocks, 1; hones and whetstones, 1;

TABLE 8.—MANUFACTURES IN CITIES

BRIDGEPORT.

	832	\$33,066,890	\$2,047,221	\$3,775,717	\$8,653,129	\$13,590,823	839	1,163	\$1,493,768	19,201	\$9,123,790
1 All industries	832	\$33,066,890	\$2,047,221	\$3,775,717	\$8,653,129	\$13,590,823	839	1,163	\$1,493,768	19,201	\$9,123,790
2 Bicycle and tricycle repairing	20	18,975	850	850	7,815	9,460	21	1	150	10	5,511
3 Blacksmithing and wheelwrighting	37	29,985	2,300	3,250	8,245	16,140	42			46	26,632
4 Boots and shoes, custom work and repairing	77	14,435	600	1,490	5,100	7,185	76			25	13,269
5 Bottling	17	87,832	8,500	7,050	4,917	17,365	18	1	850	14	5,508
6 Brass castings and brass finishing	9	2,724,227	129,000	222,000	377,245	1,995,982	5	95	153,598	1,837	977,669
7 Bread and other bakery products	41	310,417	95,475	53,900	58,563	102,479	42	36	13,336	186	110,725
8 Carpentery	56	335,312	52,900	54,600	42,187	235,625	67	16	11,690	698	438,444
9 Carriages and wagons	9	635,133	76,200	27,000	33,303	523,630	9	16	13,451	207	122,843
10 Clothing, men's, custom work and repairing	43	55,275			4,300	51,475	50	1	800	110	59,694
11 Clothing, women's, dressmaking	70	55,767	8,200	14,750	6,147	26,670	78	1	520	143	49,549

SPECIFIED INDUSTRIES : 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—Continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
38	\$12,884	3	\$762			\$7,575	\$725	\$259	\$6,591		\$25,118	\$24,340	\$769	\$82,827	127
47	29,433					8,962	987	85	1,165	\$1,775	23,011	22,857	154	79,839	128
3,733	2,085,049	709	200,370	49	\$7,598	582,635	9,395	44,670	528,570		4,679,220	4,608,325	70,895	9,588,397	129
282	154,661	16	5,400	14	2,700	31,895	1,150	4,588	26,167		209,297	198,881	10,416	452,348	130
1,761	1,047,234	6	1,712	9	1,342	149,565	78,079	7,480	63,089	967	1,847,377	1,830,518	16,859	3,927,684	131
126	62,610	12	2,426			11,129	535	956	9,688		41,851	28,915	12,936	172,843	132
760	437,114	210	62,704	10	1,587	316,526	43,495	8,609	91,818	172,604	565,382	548,738	16,644	1,877,759	133
958	640,227	162	60,893	31	2,967	294,604	33,094	12,216	210,580	38,764	432,772	398,198	34,574	2,129,073	134
9	6,134	2	450	1	208	1,401	852	14	535		17,671	17,135	536	31,046	135
72	40,923					6,185	1,596	139	4,275	125	114,275	113,607	668	198,570	136
1,681	765,776	1,137	349,708	138	20,078	452,293	14,286	22,145	403,212	12,650	5,697,899	5,610,702	87,197	8,246,240	137
323	174,132	22	6,221	6	1,298	50,611	22,948	2,767	24,252	654	368,310	363,870	4,440	782,518	138
26	14,330					5,678	4,396	105	1,177		120,278	117,752	2,521	178,809	139
492	266,637	70	19,916			20,148	800	5,089	14,259		331,609	317,034	14,575	736,105	140
1	250					487	390	12	85		223	148	75	2,770	141
1,947	1,131,310	141	42,912	16	2,400	265,786	12,800	12,482	125,994	114,510	966,567	934,962	31,605	3,170,137	142
915	451,036					13,529	3,227	1,885	7,547	870	680,213	673,908	6,305	1,227,120	143
160	58,799	634	182,418	9	1,100	25,133	7,825	1,128	15,265	1,115	291,680	284,179	7,501	680,342	144
101	40,461	7	1,402	10	2,300	33,601	4,345	1,559	18,721	8,976	362,438	354,303	8,130	537,733	145
2,763	1,350,543	3,585	1,013,498	166	28,832	687,450	30,202	36,506	363,489	217,253	7,193,008	7,101,091	96,917	12,878,981	146
368	167,925					69,913	600	5,859	63,454		2,923,511	2,904,411	19,100	3,380,112	147
10	5,904	2	410			6,308	640	888	5,280		220,079	219,769	310	233,281	148
49	38,449	54	17,400			4,052	1,712	1,105	1,235		147,742	143,465	4,277	242,192	149
96	50,426	39	8,556	20	3,000	223,333	1,130	2,118	220,085		333,983	324,799	9,184	941,001	150
203	120,163	17	5,517			54,080	219	1,161	52,700		212,138	209,017	3,166	495,961	151
51	36,648					3,689		1,197	2,432		50,223	46,733	3,490	116,906	152
818	423,885	661	192,337	33	22,906	45,064	2,690	6,535	35,339		757,795	739,796	17,999	1,716,552	153
106	37,838	5	1,990		300	57,866	1,180	1,576	52,222	2,388	286,830	284,450	1,380	591,000	154
224	118,119			2		23,413	2,524	2,448	16,041	2,400	282,356	274,659	7,697	598,220	155
57	39,976					10,540	2,545	43	7,802	150	12,162	10,491	1,661	92,431	156
4	2,040					1,261	456	8	747	50	4,078	4,013	65	19,000	157
434	260,361			3	615	35,159	15,071	1,954	18,094	40	376,269	370,835	5,434	900,751	158
806	500,249	206	67,075	20	3,517	207,841	26,450	10,741	170,650		672,340	667,730	4,610	1,775,829	159
26	8,705					648	40	141	407		65,944	65,784	160	82,404	160
413	215,344	44	10,470	6	1,535	41,197	2,605	2,937	34,955	650	180,425	170,547	9,878	614,072	161
135	58,666	28	8,625	14	2,404	37,208	3,874	17,008	3,426	12,300	75,164	71,674	3,490	227,531	162
24	11,174	10	3,336			1,817	1,310	47	460		29,218	28,630	583	57,550	163
588	340,436	97	31,306	8	2,100	41,876	812	2,600	38,404		162,502	157,131	5,321	783,322	164
55	25,585	15	3,773			2,746	1,500	419	827		36,697	33,911	2,786	80,625	165
52	24,488	61	17,262	2	127	7,987	1,800	423	5,759		45,858	44,313	1,545	141,368	166
22	16,250	10	3,000			46,959	750	1,046	44,563		234,474	232,634	1,840	399,759	167
46	17,831					3,222	359	593	2,259	6	73,508	72,090	1,418	175,907	168
22	14,000	5	1,956			2,276	190	225	1,831		10,900	9,352	1,548	50,934	169
147	95,778	5	1,187	3	416	41,793	28,792	676	6,093	6,175	66,511	62,955	3,556	355,916	170
148	77,025	118	23,592			73,733	11,630	1,332	60,221		654,379	642,397	12,022	923,938	171
636	312,331	143	36,434	7	1,132	63,526	4,999	5,119	53,408		562,690	546,392	16,193	1,245,693	172
199	89,968	7	2,021	4	714	13,397	2,624	1,221	9,452	100	118,811	114,308	4,503	277,132	173
3,071	1,235,590	1,448	445,762	149	29,565	473,106	17,912	33,435	399,322	17,437	4,951,162	4,779,837	171,295	8,097,218	174
1,379	609,947	661	209,410	158	27,544	310,267	10,016	19,829	273,235	7,187	2,971,626	2,971,032	54,394	4,530,814	175
4,258	2,192,263	1,233	330,237	97	14,432	690,303	24,997	42,807	622,504		10,542,145	10,263,831	278,244	15,983,300	176

hooks and eyes, 2; horseshoes, factory product, 1; ink, writing, 1; iron and steel, pipe, wrought, 1; japanning, 1; jewelry, 2; jute and jute goods, 1; lapidary work, 1; lithographing and engraving, 2; musical instruments and materials, not specified, 2; nets and seines, 1; oakum, 1; ordnance and ordnance stores, 2; paints, 2; paper goods, not elsewhere specified, 1; paper hangings, 1; pens, fountain, and stylographic, 2; phonographs and graphophones, 1; photographic apparatus, 2; pipes, tobacco, 1; pocketbooks, 1; pumps, not including steam pumps, 1; regalia and society banners and emblems, 1; registers, car fare, 1; safes and vaults, 1; saws, 1; screws, wood, 1; stationery goods, not elsewhere specified, 2; steam packing, 1; stencils and brands, 1; taxidermy, 1; typewriter repairing, 1; watches, 1; wire, 1; woodenware, not elsewhere specified, 1; wool scouring, 1.

BY SPECIFIED INDUSTRIES : 1900.

BRIDGEPORT.

13,599	\$7,454,429	5,446	\$1,600,413	246	\$59,948	\$2,564,392	\$196,367	\$106,339	\$2,040,428	\$221,258	\$19,133,236	\$18,709,995	\$423,241	\$37,833,721	1
8	5,205			2	306	2,001	1,762	39	185	15	9,784	9,474	310	31,334	2
46	26,632					6,525	5,985	76	464		34,987	33,591	1,096	112,505	3
25	13,269					6,822	6,369	21	432		24,044	23,151	893	80,327	4
14	5,508					2,314	1,012	146	1,156		46,067	45,946	122	75,086	5
1,782	943,567	95	30,932	10	3,120	152,529	2,600	12,038	134,190	3,701	2,538,443	2,474,307	64,136	4,147,452	6
178	107,395	7	3,130	1	150	17,331	6,850	798	9,683		301,201	293,740	7,551	586,443	7
698	433,444					178,323	3,747	2,391	19,578	152,607	739,592	735,917	3,675	1,612,376	8
207	122,843					14,538	4,618	1,609	8,361		134,311	131,130	3,681	366,535	9
101	56,961	8	2,533	1	150	13,127	11,010	76	2,041		66,101	64,798	1,303	189,615	10
17	10,979	126	38,570			10,447	9,274	251	922		61,068	59,559	1,509	185,924	11

TABLE 8.—MANUFACTURES IN CITIES

BRIDGEPORT—Continued.

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
12 Clothing, women's, factory product	3	\$182,575	\$11,000	\$23,500	\$17,125	\$80,950	3	11	\$10,216	380	\$140,080
13 Confectionery	4	22,900			7,300	15,600	5	3	2,128	17	10,005
14 Corsets	7	1,861,076	53,100	212,546	129,104	966,828	11	127	247,247	2,984	877,514
15 Cutlery and edge tools	3	198,600	18,400	19,000	39,500	116,700		13	15,875	350	147,562
16 Druggists' preparations, not including prescriptions.	3	2,130			230	1,900	3				
17 Dyeing and cleaning	3	6,774		500	2,105	4,169	7	2	660	8	3,964
18 Electrical construction and repairs	3	3,325			825	2,500	3			4	1,728
19 Electroplating	3	9,700			4,850	4,850	4	1	900	19	8,412
20 Flouring and grist mill products	2	189,000	22,500	162,500	22,000	42,000	2	7	2,756	7	8,470
21 Foundry and machine shop products	31	2,819,172	193,800	867,600	582,882	1,174,890	21	97	129,637	1,540	882,584
22 Furniture, cabinetmaking, repairing, and upholstering.	13	23,655	2,200	1,300	3,725	16,430	14	7	3,810	27	16,450
23 Hardware	5	586,602	34,000	110,623	139,927	252,052	1	29	37,405	480	190,506
24 Liqueurs, malt	5	611,342	37,300	190,596	121,157	282,289	9	10	17,560	57	51,948
25 Lock and gun smithing	5	6,450	100	300	3,400	2,650	6	2	700	4	2,485
26 Looking-glass and picture frames	3	12,425			625	11,800	3	1	250	4	2,150
27 Marble and stone work	3	33,900	1,500	1,350	12,150	18,900	1	5	2,700	15	8,544
28 Masonry, brick and stone	21	131,029	15,150	14,050	10,748	91,081	23	8	7,350	283	159,791
29 Mattresses and spring beds	3	6,575			2,075	4,500	4			7	2,688
30 Millinery, custom work	14	39,310			1,235	38,075	17	4	1,550	84	29,225
31 Mineral and soda waters	3	32,675	6,000	3,825	11,700	11,150	10	1	800	14	7,750
32 Models and patterns	3	3,950			2,150	1,800	3			6	3,010
33 Monuments and tombstones	5	26,250	3,000	900	2,150	20,200	5	3	2,100	29	21,000
34 Painting, house, sign, etc	39	121,832	5,280	8,550	13,505	94,527	45	10	8,030	213	131,564
35 Paper hanging	4	5,575			775	4,800	6			32	17,405
36 Paving and paving materials	4	55,980	14,400	3,825	28,989	18,775	4	15	11,220	207	80,860
37 Photography	3	16,935		200	11,210	5,575	9	1	520	7	3,240
38 Plumbing, and gas and steam fitting	36	143,128	2,000	2,400	20,325	118,403	42	22	9,654	209	119,207
39 Printing and publishing, book and job.	11	72,672	1,000	130	48,105	23,437	7	10	8,180	56	24,902
40 Printing and publishing, newspapers and periodicals.	7	356,182	47,000	55,690	144,580	108,912	3	34	34,074	83	57,331
41 Roofing and roofing materials	3	7,250			3,050	4,200	6			11	5,886
42 Rubber and elastic goods	4	507,200	50,000	50,000	140,700	266,500	1	27	41,260	337	127,411
43 Saddlery and harness	14	18,333			1,730	16,603	15	5	1,384	47	22,355
44 Ship and boat building, wooden	3	10,601		1,000	2,784	6,817	6			24	17,085
45 Shirts	3	315,083	75,000	100,000	74,807	65,276	1	3	5,500	407	127,420
46 Stamped ware	3	50,000			24,000	26,000	2	4	2,200	66	23,900
47 Steam fittings and heating apparatus	3	382,146	20,000	56,061	51,403	254,682	1	24	33,771	154	79,179
48 Tinsmithing, coppersmithing, and sheet-iron working.	4	40,068	5,000	6,700	11,300	17,068	3	4	4,312	36	22,650
49 Tobacco, cigars and cigarettes	17	24,235	3,200	2,700	1,015	17,320	18	1	624	22	10,814
50 Watch, clock, and jewelry repairing	20	26,510	2,000	2,000	6,365	16,145	23			18	10,278
51 Wirework, including wire rope and cable.	4	245,549	19,000	44,038	105,633	76,878	3	8	11,301	55	22,257
52 All other industries ¹	105	20,664,799	1,031,266	2,008,943	6,298,008	11,326,582	31	497	643,399	7,707	3,888,886

¹ Embraces ammunition, 1; awnings, tents, and sails, 2; belting and hose, leather, 1; bicycles and tricycles, 2; billiard tables and materials, 1; blacking, 1; bookbinding and blank book making, 1; boxes, fancy and paper, 2; brassware, 2; bridges, 1; brooms and brushes, 1; buttons, 1; cardboard, 1; carpets and rugs, other than rag, 1; carpets, rag, 2; carriage and wagon materials, 1; carriages and sleds, children's, 1; cars and general shop construction and repairs by steam railroad companies, 1; chemicals, 1; cleansing and polishing preparations, 1; coffee and spice, roasting and grinding, 1; coffins, burial cases, and undertakers' goods, 1; cooperage, 1; copper, smelting and refining, 1; cork, cutting, 1; crucibles, 1; electrical apparatus and supplies, 1; emery wheels, 1; engraving and desinking, 2; engraving, steel, including plate printing, 1; engraving, wood, 1; fancy articles, not elsewhere specified, 1; fertilizers, 1; firearms, 1; food preparations, 1; fur goods, 1; fur hats, 2; gas, illuminating and heating, 2; gas machines and meters, 1; glass, cutting, staining, and ornamenting, 1; hairwork, 2; hand stamps, 1; hats and caps, not including fur hats, and wool hats, 1; hosiery and knit goods, 1; house furnishing goods, not elsewhere specified, 1; ice, artificial, 1; iron and

HARTFORD.

1 All industries	888	\$30,500,047	\$1,748,268	\$5,016,138	\$8,065,155	\$15,670,486	950	1,267	\$1,475,519	13,363	\$7,603,809
2 Awnings, tents, and sails	3	12,840			1,190	11,650	7			13	5,988
3 Bicycle and tricycle repairing	17	20,745			11,645	9,100	19	2	2,500	23	10,777
4 Bicycles and tricycles	3	2,524,908	197,975	631,184	579,227	1,116,522		212	192,437	1,213	728,054
5 Blacksmithing and wheelwrighting	38	45,704	8,250	1,230	11,744	24,480	41			70	46,749
6 Bookbinding and blank book making	3	5,048			2,822		3	1	720	14	6,804
7 Boots and shoes, custom work and repairing.	63	15,000		735	6,295	7,976	63			23	12,625
8 Bottling	3	38,675			1,225	37,450	4	2	990	11	4,696
9 Boxes, fancy and paper	3	23,600			9,000	14,600	2	1	1,000	50	18,930
10 Brass castings and brass finishing	3	62,414	11,000	18,000	9,924	23,490	5	2	1,555	29	20,600
11 Bread and other bakery products	34	192,183	11,100	19,100	96,049	65,934	86	16	10,696	177	104,827
12 Brick and tile	7	114,025	45,900	18,200	19,925	30,000	8	2	1,240	68	30,800
13 Carpentering	69	513,663	42,430	60,600	45,831	364,802	88	18	14,118	821	551,967
14 Carriages and wagons	6	2,149,820	88,702	313,663	404,086	1,392,489	7	77	93,381	904	474,345
15 Cleansing and polishing preparations	4	7,510			245	7,265	3			13	5,399
16 Clothing, men's, custom work and repairing.	78	137,659			11,296	126,363	81	12	7,920	156	95,490
17 Clothing, men's, factory product	3	22,000			2,000	20,000	4	1	500	44	13,630
18 Clothing, women's, dressmaking	33	23,685			6,325	17,360	36	2	1,100	113	40,949
19 Clothing, women's, factory product	4	28,700	4,000	4,000	3,500	17,200	5			58	17,585
20 Coffee and spice, roasting and grinding	3	48,065	1,250	2,075	5,500	39,240	2	3	2,699	5	3,106
21 Confectionery	9	52,221			25,567	26,654	14	5	2,115	46	19,126

BY SPECIFIED INDUSTRIES: 1900—Continued.

BRIDGEPORT—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
28	\$18,000	352	\$122,080			\$6,876	\$780	\$549	\$5,467	\$80	\$104,994	\$103,805	\$1,183	\$417,035	12
13	8,565	4	1,440			2,053	1,580	51	422		31,227	30,300	927	55,565	13
339	166,789	2,576	684,734	69	\$26,000	162,823	4,130	11,887	146,806		1,676,728	1,667,374	9,354	3,224,193	14
316	138,037	84	9,525			23,318	700	585	22,033		105,160	101,710	3,450	364,324	15
						343	145		198		1,063	1,063	20	3,319	16
5	2,830	2	990	1	144	1,909	1,777		132		1,133	828	305	14,070	17
4	1,728					214	205		9		6,004	5,979	25	11,987	18
19	8,612					1,494	1,279	40	175		4,800	3,872	928	25,167	19
7	3,470					1,856	100	662	594		101,448	100,273	1,175	121,020	20
1,501	823,400	15	4,520	24	4,614	152,535	15,394	3,765	121,001	7,375	876,527	815,489	61,038	2,412,796	21
24	15,540	3	910			2,854	1,544	102	1,203		29,401	28,220	671	63,282	22
383	176,434	47	14,072			27,451	820	1,900	24,731		320,071	313,375	6,696	642,920	23
57	51,948					216,023		3,277	212,746		107,816	98,865	9,451	521,483	24
4	2,485					1,015	878	16	121		952	717	235	3,956	25
4	2,150					1,884	1,304		80		6,570	6,545	25	14,310	26
15	8,544					1,017	552	40	425		6,656	5,518	1,138	24,825	27
283	159,791					11,790	2,370	513	3,907	5,000	140,235	139,744	551	391,463	28
6	2,143	1	545			1,037	532	15	430		9,254	9,040	214	17,008	29
4	2,040	77	26,649	8	536	11,288	8,370	145	2,273		90,820	90,231	589	163,016	30
14	7,750					2,538	580	181	1,777		17,636	17,367	329	54,695	31
5	2,810			1	200	393	312	6	75		1,474	1,304	170	10,885	32
29	21,000					1,791	486	54	451	800	23,674	23,562	112	60,490	33
217	131,264			1	300	9,627	6,352	547	2,478	250	104,581	104,061	520	329,566	34
32	17,405					1,649	685	20	143		9,945	9,915	30	37,385	35
207	80,800					1,963	1,000	205	753		46,630	44,530	2,100	171,875	36
5	2,460	2	780			3,158	2,726	68	364		16,489	16,206	283	30,503	37
203	118,607		600			13,967	9,759	467	3,711		221,427	219,921	1,506	452,697	38
49	22,886	7	2,016			6,818	2,670	150	3,438		25,036	23,643	1,393	87,282	39
78	53,427	5	3,904			23,053	2,333	1,143	19,187	4,784	33,465	32,507	2,958	201,295	40
11	5,886					2,079	631		1,548		8,552	8,532	20	20,670	41
235	93,427	98	33,568	4	416	58,570	4,750	1,935	42,385	9,500	332,648	322,864	9,784	633,577	42
45	22,105	2	250			2,905	1,541	83	231		35,508	35,129	379	78,734	43
24	17,683					2,020	1,700		220	100	6,434	6,222	212	32,871	44
35	20,277	372	106,813			5,172	495	859	3,818		151,535	148,262	3,273	343,292	45
39	17,000	27	6,900			2,664	2,110	64	490		17,230	15,795	1,435	58,695	46
154	79,179					14,965	1,234	1,384	10,347	1,400	173,975	169,154	4,821	371,445	47
35	22,500			1	150	5,848	480	138	5,230		84,130	83,581	549	88,700	48
19	9,814	2	800	1	200	6,279	1,175	113	4,991		16,822	16,598	224	47,449	49
17	10,122			1	156	3,502	3,005	62	435		8,328	7,900	428	41,721	50
51	21,537	4	720			11,192	204	501	10,487		35,987	34,696	1,291	128,805	51
6,002	3,353,128	1,579	512,252	126	23,506	1,349,812	54,455	51,817	1,207,894	35,646	10,238,206	10,029,286	208,920	18,712,683	52

steel, 2; iron and steel forgings, 2; japanning, 1; lamps and reflectors, 1; leather goods, 1; leather, tanned, curried, and finished, 1; lumber, planing mill products, including sash, doors, and blinds, 2; millinery and lace goods, 1; musical instruments, organs and materials, 1; ordnance and ordnance stores, 1; paper and wood pulp, 1; patent medicines and compounds, 1; phonographs and graphophones, 1; photolithography and photoengraving, 1; plastering and stuccowork, 2; plated and britannia ware, 2; pottery, terra cotta, and fire-clay products, 1; printing materials, 2; sausage, 2; sewing machines and attachments, 2; silk and silk goods, 2; slaughtering and meat packing, wholesale, 2; slaughtering, wholesale, not including meat packing, 2; soap and candles, 1; sporting goods, 1; springs, steel, car, and carriage, 1; stereotyping and electrotyping, 1; taxidermy, 1; tools, not elsewhere specified, 1; toys and games, 1; typewriters and supplies, 1; typewriter repairing, 1; umbrellas and canes, 2; upholstering materials, 1; varnish, 2; wood, turned and carved, 2.

HARTFORD.

11,597	\$7,065,658	1,698	\$521,065	68	\$14,086	\$3,375,585	\$252,105	\$118,180	\$1,666,192	\$1,339,108	\$14,103,167	\$13,791,041	\$312,126	\$31,145,715	1
6	3,610	7	2,378			999	645	21	333		5,739	5,633	106	19,572	2
23	10,777					4,750	3,214	59	1,477		14,168	13,598	570	47,203	3
1,176	719,414	2	490	85	8,150	223,418	960	11,510	210,948		1,181,707	1,166,107	15,600	2,472,446	4
70	46,749					7,912	5,661	392	1,829	30	36,379	34,500	1,879	135,942	5
9	5,068	4	1,604	1	132	1,408	1,148	56	204		2,691	2,460	131	14,619	6
23	12,625					9,237	8,258	9	970		22,131	21,501	630	30,203	7
6	3,254	5	1,442			6,490	795	150	5,545		9,152	9,020	132	99,375	8
10	5,870	40	18,000			1,983	1,630	83	270		30,032	29,545	487	56,100	9
29	20,600					2,500	152	190	158	2,000	22,835	20,266	2,629	56,170	10
153	98,053	19	6,774			31,523	15,133	885	15,565		297,775	289,413	8,362	541,356	11
68	30,800					4,094	80	524	3,490		10,760	1,928	8,832	60,050	12
821	551,967					748,240	8,665	2,637	15,961	720,947	898,261	893,076	4,285	2,536,416	13
904	474,345					66,494	8,268	2,650	55,576		699,080	668,090	30,990	1,333,115	14
8	4,202	5	1,137			3,835	439		3,396		4,112	4,092	50	14,225	15
132	87,920	22	7,300	2	270	87,468	22,027	196	6,620	58,625	216,349	214,646	1,703	510,982	16
8	4,050	36	9,580			2,527	1,100	15	1,412		31,997	31,705	292	58,200	17
21	11,754	92	29,136			10,757	9,012	22	1,723		56,457	55,721	736	139,558	18
7	2,756	51	14,829			938	646	132	215		50,610	50,610	664	77,450	19
5	3,106					5,425	750	307	4,368		102,723	101,348	1,375	136,134	20
31	16,006	15	3,120			12,442	5,700	102	6,580		72,456	70,734	1,672	142,016	21

TABLE 8.—MANUFACTURES IN CITIES

HARTFORD—Continued.

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
22 Druggists' preparations, not including prescriptions.	3	\$3,725	\$100	\$200	\$425	\$3,000	4	1	\$536	6	\$2,050
23 Dyeing and cleaning.	7	80,227	6,000	10,500	9,500	4,227	7	1	1,600	43	17,974
24 Electrical apparatus and supplies.	7	536,454	25,000	64,985	81,539	414,019	9	29	54,221	341	128,472
25 Electrical construction and repairs.	7	81,937			4,025	27,012	11	5	2,724	40	25,892
26 Flouring and grist mill products.	3	109,125	24,000	33,500	19,925	26,700	5	13	15,857	26	15,839
27 Foundry and machine shop products.	36	6,666,056	450,523	1,287,185	2,133,792	2,794,556	19	156	295,468	2,603	1,588,318
28 Fur goods.	5	37,473			2,711	84,767	6	3	900	22	9,894
29 Furniture, cabinetmaking, repairing, and upholstering.	16	41,250	3,000	2,700	4,750	30,800	21			37	24,051
30 Hairwork.	4	1,665			865	800	4			5	1,873
31 Hosiery and knit goods.	3	33,267	2,500	5,000	9,767	16,000	6	5	4,258	52	16,015
32 Liquors, malt.	4	839,021	26,911	283,500	316,845	256,765	1	32	44,280	99	82,050
33 Lock and gun smithing.	4	2,800			1,250	1,550	4			3	1,584
34 Looking-glass and picture frames.	5	41,695			3,950	37,745	6	6	4,044	19	11,918
35 Lumber, planing mill products, including sash, doors, and blinds.	7	178,927	22,000	27,567	44,917	84,443	7	13	11,476	98	63,276
36 Marble and stone work.	3	17,250	3,000	1,000	4,350	3,400	7	1	425	25	16,191
37 Masonry, brick and stone.	19	235,010	46,700	30,000	13,450	139,860	24	8	7,102	429	292,157
38 Millinery, custom work.	15	96,125	7,500	14,000	3,136	71,490	25	1	600	118	42,543
39 Mineral and soda waters.	5	44,275	5,500	15,000	16,700	7,075	6	1	780	24	13,072
40 Monuments and tombstones.	5	44,950	6,600	3,000	6,100	24,250	7	7	3,760	37	26,976
41 Optical goods.	3	19,100			3,200	15,900	4			7	3,730
42 Painting, house, sign, etc.	41	105,239	5,000	7,700	16,088	76,441	47	8	6,176	203	139,855
43 Patent medicines and compounds.	6	33,125	4,600	13,800	1,875	12,850	7	4	3,330	4	1,956
44 Paving and paving materials.	5	148,378	5,000	5,000	84,991	103,887	3	13	19,000	114	58,461
45 Photography.	14	32,608		150	19,286	13,172	14	5	2,300	28	15,475
46 Plumbing, and gas and steam fitting.	42	193,389			27,282	166,607	51	18	10,743	268	161,562
47 Printing and publishing, book and job.	38	1,023,315	92,000	143,400	273,045	514,870	35	49	55,293	442	236,111
48 Printing and publishing, newspapers and periodicals.	13	374,477	52,000	62,700	109,340	149,937	11	52	60,498	193	133,868
49 Roofing and roofing materials.	5	18,173	3,000	4,000	1,025	10,148	5	1	250	18	10,313
50 Saddlery and harness.	10	225,311	10,000	44,800	25,413	145,098	11	13	8,720	194	96,911
51 Tinsmithing, coppersmithing, and sheet-iron working.	15	53,556	2,000	6,250	9,325	35,481	15	7	4,178	61	39,338
52 Tobacco, cigars and cigarettes.	25	233,788	1,500	4,100	2,533	225,650	31	3	2,850	235	138,432
53 Watch, clock, and jewelry repairing.	30	23,220	500	500	10,225	11,295	40			21	17,909
54 Wood, turned and carved.	3	6,350			3,350	3,000	3	1	300	6	4,600
55 All other industries ¹ .	89	12,374,835	582,727	1,861,314	3,533,684	6,846,610	72	455	519,324	3,691	2,001,711

¹ Embraces baskets, and rattan and willow ware, 1; belting and hose, leather, 1; billiard tables and materials, 1; boots and shoes, factory product, 1; boxes, cigar, 1; boxes, wooden packing, 1; brooms and brushes, 2; carpets, rag, 1; carriage and wagon materials, 2; cars and general shop construction and repairs by steam railroad companies, 2; cars and general shop construction and repairs by street railroad companies, 1; coffins, burial cases, and undertakers' goods, 1; cotton goods, 1; dentists' materials, 2; electroplating, 2; engraving and diesinking, 2; engraving, steel, including plate printing, 1; engraving, wood, 1; envelopes, 2; fertilizers, 1; firearms, 1; flavoring extracts, 1; food preparations, 1; furniture, factory product, 2; furs, dressed, 1; gas, illuminating and heating, 1; glass, cutting, staining, and ornamenting, 1; gold and silver, leaf and foil, 2; hand stamps, 2; hoes and axes, 1; horseshoes, factory product, 1; ink, writing, 1; instruments, professional and scientific, 1; iron and steel, nails and spikes, cut and wrought, including wire nails, 1; iron and steel, pipe, wrought, 1; ironwork, architectural

MERIDEN.

1 All industries	260	\$16,699,004	\$1,143,532	\$2,053,290	\$4,093,124	\$9,404,058	262	435	\$690,756	7,531	\$3,702,240
2 Bicycle and tricycle repairing	6	8,905			6,000	2,905	9	1	600	7	3,050
3 Blacksmithing and wheelwrighting	14	20,775	8,800	3,600	3,115	5,260	15			18	10,720
4 Boots and shoes, custom work and repairing.	25	6,127			1,632	1,495	25			5	2,300
5 Bottling	4	8,925			1,300	7,625	5			8	4,820
6 Bread and other bakery products.	13	25,600	2,450	4,050	6,875	12,225	16	1	300	51	30,002
7 Carpentering	14	76,425	4,100	4,050	3,725	59,550	14	9	9,000	119	81,740
8 Clothing, men's, custom work and repairing.	16	22,500			3,510	13,990	16	1	1,000	48	25,950
9 Clothing, women's, dressmaking	17	5,720			1,300	4,420	18			33	9,522
10 Confectionery	3	4,600			2,200	2,400	3			10	4,730
11 Cutlery and edge tools	3	694,303	58,125	107,650	123,988	404,540	2	27	47,200	376	171,946
12 Druggists' preparations, not including prescriptions.	4	320			70	250	4				
13 Fancy articles, not elsewhere specified.	4	192,239	200	13,640	26,416	152,033	3	19	28,315	120	37,975
14 Foundry and machine shop products.	5	294,443	36,365	92,333	105,500	60,245	6	9	9,042	148	60,762
15 Hardware	6	3,145,032	433,472	326,500	579,161	1,745,910	5	43	63,293	1,102	541,314
16 Masonry, brick and stone	7	233,903	61,298	29,872	7,084	140,654	7	19	21,634	161	85,216
17 Millinery, custom work	9	9,330			430	8,900	9			20	6,475
18 Mineral and soda waters	3	23,500	3,500	9,500	3,600	1,900	3			12	6,300
19 Monuments and tombstones	4	16,775	3,700	4,250	2,225	6,600	4			7	5,140
20 Painting, house, sign, etc.	4	32,225	4,000	3,500	3,350	21,375	5			77	50,230
21 Photography	4	6,200			3,600	2,600	8			8	1,500
22 Plated and britannia ware.	8	6,161,030	205,436	733,300	1,747,158	3,425,136	1	115	236,912	2,048	1,055,862
23 Plumbing, and gas and steam fitting	6	27,030			5,885	21,195	7	3	1,951	37	22,702
24 Printing and publishing, book and job.	5	69,559	6,000	7,000	33,050	24,509	3	8	6,364	33	20,243
25 Saddlery and harness	4	5,475			1,275	4,200	5			3	1,395

BY SPECIFIED INDUSTRIES: 1900—Continued.

HARTFORD—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
5	\$1,686	1	\$304			\$750	\$511	\$20	\$219		\$4,616	\$4,486	\$130	\$9,917	22
28	12,252	20	5,722			2,912	1,492	170	1,250		9,047	7,795	1,252	40,479	23
180	95,606	160	32,769	1	\$97	46,655	3,590	2,108	40,957		360,018	356,119	4,894	671,697	24
40	25,892					4,426	1,650	811	2,465		65,521	65,353	168	116,220	25
22	14,784	4	1,055			4,960		2,670	2,290		344,359	338,085	6,274	404,834	26
2,550	1,528,098	44	8,705	9	1,510	185,723	18,576	21,575	185,424	\$10,148	1,878,585	1,801,974	71,611	3,718,608	27
5	4,175	17	5,719			5,193	2,322	290	2,581		32,301	32,151	150	62,499	28
37	24,051					4,798	3,044	182	1,567		30,183	29,777	406	90,792	29
1	780	4	1,093			1,641	1,534		107		1,573	1,558	15	9,439	30
1	812	49	15,408	2	300	1,515	550	180	835		25,999	25,824	175	59,710	31
99	82,050					320,106	1,200	7,022	320,884		208,743	192,930	15,813	742,038	32
8	1,594					563	520	3	40		1,001	816	185	7,000	33
18	11,543	1	375			2,654	1,531	168	965		30,043	29,912	131	57,264	34
98	68,276					9,330	975	1,198	7,157		311,178	308,575	2,603	430,091	35
25	16,191					1,935	175	60	1,700		23,633	23,118	520	54,712	36
429	292,157					365,578	1,676	1,244	10,451	352,202	480,216	487,268	1,948	1,288,501	37
15	6,826	102	35,557	1	160	7,083	3,494	822	2,717		152,221	151,856	365	261,695	38
24	13,072					3,471	120	254	3,097		16,052	15,702	350	54,058	39
37	26,976					3,682	704	463	2,515		45,387	45,229	158	95,738	40
7	3,730					3,835	2,350	85	1,450		15,907	15,738	124	34,880	41
202	139,585	1	270			10,003	5,394	464	4,145		78,244	78,709	535	301,947	42
3	1,756	1	200			3,753	200	153	3,400		7,820	7,610	210	35,525	43
114	58,451					9,901	1,178	491	8,232		161,862	158,417	3,445	290,512	44
21	12,484	6	2,836	1	175	9,755	7,329	78	2,348		18,780	18,090	690	65,785	45
267	161,412	1	150	1	150	25,233	16,777	268	8,188		326,419	324,571	1,848	626,827	46
331	202,847	108	33,250	3	514	151,833	15,784	4,432	35,154	96,163	252,420	247,907	4,423	376,851	47
182	127,828	11	6,540			111,754	6,345	3,057	37,654	14,698	79,649	71,189	8,460	454,850	48
18	10,813					1,037	372	55	610		30,215	30,130	85	52,060	49
170	90,142	18	5,521	6	1,248	28,970	8,276	1,620	19,074		213,088	211,805	1,283	385,129	50
60	39,682	1	166	1	166	5,196	3,123	129	1,943		38,088	37,720	368	123,776	51
190	120,876	45	17,556			45,760	6,857	332	39,071		164,833	163,903	430	391,584	52
20	17,709	1	200			7,983	5,631	52	750	1,500	10,339	9,983	351	58,472	53
6	4,600					879	555		324		6,056	5,826	236	15,755	54
2,879	1,748,466	807	257,021	5	1,224	750,584	39,427	48,844	580,018	82,795	5,418,238	5,311,873	101,365	10,123,671	55

and ornamental, 1; lithographing and engraving, 2; mattresses and spring beds, 1; models and patterns, 2; musical instruments and materials, not specified, 1; musical instruments, organs and materials, 1; needles and pins, 1; oil, not elsewhere specified, 1; paper hanging, 2; perfumery and cosmetics, 2; photolithographing and photoengraving, 1; pickles, preserves, and sauces, 1; plastering and stuccowork, 1; plated and britannia ware, 1; plumbers' supplies, 2; pocketbooks, 1; pottery, terra cotta, and fire-clay products, 2; rubber and elastic goods, 2; screws, machine, 2; screws, wood, 1; sewing machine repairing, 1; sewing machines and attachments, 2; ship and boat building, wooden, 1; shirts, 2; steam fittings and heating apparatus, 1; stencils and brands, 1; stereotyping and electrotyping, 1; tools, not elsewhere specified, 2; trunks and valises, 1; umbrellas and canes, 2; wirework, including wire rope and cable, 2; woodenware, not elsewhere specified, 1.

MERIDEN.

6,021	\$3,266,697	1,435	\$420,506	75	\$15,037	\$1,085,142	\$47,614	\$81,540	\$351,388	\$104,600	\$3,861,612	\$5,686,116	\$175,496	\$13,485,640	1
7	3,050					1,650	945	30	675		4,839	4,490	349	16,960	2
18	10,720					1,491	934	217	340		8,160	7,522	638	32,534	3
5	2,300					2,025	1,898		127		5,955	5,698	257	22,158	4
8	4,820					1,694	900	24	770		29,840	29,585	255	46,000	5
44	27,482	7	2,520			4,102	2,564	214	1,324		60,722	58,548	2,179	128,500	6
119	81,740					25,051	1,375	229	2,847	20,600	118,457	117,590	867	264,750	7
41	24,100	7	1,850			3,665	2,474	143	1,048		29,382	29,065	317	77,343	8
1	850	31	3,620	1	52	1,930	1,690	10	230		8,810	8,496	314	32,015	9
7	3,740	8	1,050			2,200	1,620	120	460		10,640	10,385	255	25,860	10
277	149,126	99	22,820			21,016	40	3,287	17,689		137,292	133,355	3,937	408,493	11
						409	200		209		955	915	40	2,980	12
49	22,145	69	15,350	2	480	17,206	950	459	15,797		83,519	81,639	1,880	200,447	13
148	79,115	5	1,587			16,639		2,310	14,329		80,144	78,360	6,784	233,097	14
887	474,614	213	66,350	2	350	125,159	405	11,405	113,349		635,153	602,348	32,805	1,619,149	15
161	85,216					94,172	400	981	10,791	82,000	219,358	218,901	457	455,289	16
		20	6,475			2,522	2,165	37	320		32,637	32,423	214	54,913	17
12	6,300					901		185	716		3,068	2,827	239	15,060	18
7	5,140					2,460	216	132	112	2,000	6,072	5,932	140	20,075	19
77	50,280					2,128	1,205	232	691		31,475	31,207	268	107,650	20
2	1,100	1	400			2,283	1,600	48	635		4,601	4,380	221	16,700	21
1,764	973,542	282	82,045	2	275	273,765	1,770	26,151	245,844		1,871,232	1,844,032	27,200	4,129,896	22
37	22,702					2,843	2,011	214	618		44,422	43,998	424	86,042	23
80	17,128	7	3,075	1	40	1,871	800	324	747		14,111	13,512	602	51,955	24
3	1,395					498	444	11	43		6,467	6,369	98	14,115	25

TABLE 8.—MANUFACTURES IN CITIES

MERIDEN—Continued.

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
26 Smithing, coppersmithing, and sheet-iron working.	3	\$18,685	\$1,500	\$3,000	\$1,650	\$12,535	2	1	\$1,200	15	\$11,475
27 Tobacco, cigars and cigarettes.	5	11,400			500	10,900	6	1	750	23	11,620
28 Watch, clock, and jewelry repairing.	3	2,910			1,565	1,345	8			2	1,800
29 All other industries ¹	52	5,572,943	255,586	661,045	1,411,960	3,244,352	53	178	258,145	3,040	1,417,401

¹ Embraces awnings, tents, and sails, 1; boots and shoes, factory product, 1; boxes, fancy and paper, 2; boxes, wooden packing, 1; carriages and wagons, 2; clocks, 1; electrical apparatus and supplies, 1; engraving and diesinking, 1; engraving, wood, 2; flouring and grist mill products, 2; furniture, cabinetmaking, repairing, and upholstering, 2; gas and lamp fixtures, 2; gas, illuminating and heating, 1; glass, cutting, staining, and ornamenting, 1; gold and silver, reducing and refining, not from the ore, 1; hand stamps, 1; hardware, saddlery, 1; house furnishing goods, not elsewhere specified, 1; ironwork, architectural and ornamental, 1; lamps and reflectors, 2; leather goods, 1; liquors, malt, 2; lock and gun smithing, 1; looking-glass and picture frames, 2; lumber and timber products, 1; lumber,

NEW BRITAIN.

1 All industries	226	\$14,115,610	\$789,464	\$1,936,622	\$3,130,174	\$5,259,350	232	466	\$545,057	8,438	\$3,841,117
2 Bicycle and tricycle repairing	9	17,100	4,100	3,050	6,675	3,275	13	2	1,230	4	2,550
3 Blacksmithing and wheelwrighting	11	9,760	900	1,350	2,475	5,085	12			8	5,254
4 Boots and shoes, custom work and repairing.	21	4,890	200	450	2,015	2,225	22			6	2,718
5 Bottling	7	19,300	6,500	6,300	975	5,525	9			14	7,578
6 Bread and other bakery products	7	37,000	13,500	13,000	3,900	6,600	9	6	1,720	42	21,532
7 Carpentering	19	111,393	33,200	31,800	5,833	40,510	21	1	1,200	144	81,828
8 Carriages and wagons	5	26,553	8,100	4,800	1,478	12,175	7	1	500	16	8,292
9 Clothing, men's, custom work and repairing.	14	14,594			2,415	12,179	14			25	13,346
10 Clothing, women's, dressmaking	3	1,800			600	1,200	3			5	1,668
11 Confectionery	4	2,225			1,650	575	6	9	950	4	2,010
12 Flouring and grist mill products	3	60,069	19,042	14,000	6,750	20,277	3	1	394	5	2,604
13 Foundry and machine shop products	3	729,825	74,000	142,039	180,295	324,441	2	31	40,589	540	269,007
14 Furniture, cabinetmaking, repairing, and upholstering.	5	4,750	400	400	2,750	1,200	7			6	3,334
15 Hardware	7	7,648,350	277,751	1,095,402	1,886,403	4,388,794	1	264	287,947	4,111	1,841,335
16 Marble and stone work	4	29,850	9,800	4,600	950	14,500	4			26	9,480
17 Masonry, brick and stone	5	16,500	5,250	1,650	3,050	6,550	8			55	22,179
18 Millinery, custom work	6	15,373			430	14,943	8	6	2,800	27	8,488
19 Mineral and soda waters	4	7,200	500	100	4,350	2,250	4			7	3,100
20 Painting, house, sign, etc	8	33,680	2,200	2,400	2,360	31,730	9	2	1,332	63	35,724
21 Photography	4	7,600			5,300	2,300	6	1	500	4	1,291
22 Plumbing, and gas and steam fitting	11	48,941	9,000	15,000	3,275	21,665	12	5	3,658	35	20,256
23 Printing and publishing, book and job	3	18,734			14,000	4,734	2	2	1,214	13	5,759
24 Printing and publishing, newspapers and periodicals.	6	112,332	7,000	16,000	64,243	25,089	4	8	6,096	69	40,599
25 Saddlery and harness	3	15,650			650	15,000	3			3	1,750
26 Tobacco, cigars and cigarettes	6	14,555	600	1,200	550	12,205	6	2	1,800	29	14,494
27 Watch, clock, and jewelry repairing	6	2,305			1,750	615	6			4	2,700
28 All other industries ¹	37	5,109,221	267,421	633,031	925,012	3,283,767	31	125	193,627	3,178	1,409,156

¹ Embraces bookbinding and blank book making, 2; boxes, fancy and paper, 2; brass castings and brass finishing, 1; brassware, 1; brick and tile, 2; carriage and wagon materials, 1; cordials and sirups, 1; cutlery and edge tools, 2; dyeing and cleaning, 1; electrical apparatus and supplies, 1; fish, canning and preserving, 1; gas, illuminating and heating, 1; hardware, saddlery, 1; hosiery and knit goods, 2; ice, artificial, 1; jewelry, 1; looking-glass and picture frames, 2; lum-

NEW HAVEN.

1 All industries	1,236	\$30,463,066	\$2,510,818	\$3,645,198	\$7,850,302	\$16,457,243	1,269	1,600	\$1,590,241	20,536	\$10,016,571
2 Awnings, tents, and sails	5	27,075			2,300	24,775	5	2	1,950	27	13,885
3 Bicycle and tricycle repairing	28	53,771	1,000	200	20,400	32,171	23	2	312	35	20,111
4 Blacksmithing and wheelwrighting	55	103,648	35,925	29,576	13,440	31,607	63	1	1,200	77	48,444
5 Boots and shoes, custom work and repairing.	105	29,040	6,300	4,315	7,389	11,036	106			36	15,183
6 Bottling	40	63,482	16,060	9,150	12,817	30,455	43	4	3,920	33	17,401
7 Boxes, fancy and paper	6	695,371	8,000	14,287	331,995	341,089		39	46,968	608	197,503
8 Brass castings and brass finishing	4	144,376	44,830	35,737	35,364	28,395	3	5	2,875	25	17,512
9 Bread and other bakery products	41	579,278	61,010	143,450	213,514	161,304	43	50	39,785	279	158,365
10 Carpentering	62	297,037	39,765	49,375	44,491	163,406	66	21	17,346	375	245,452
11 Carriage and wagon materials	6	299,916	19,725	57,913	73,345	148,935	5	23	21,127	166	87,314
12 Carriages and wagons	24	1,672,171	151,912	300,925	95,260	1,124,074	25	35	45,446	724	509,522
13 Cars and general shop construction and repairs by steam railroad companies.	4	1,108,430	247,000	103,450	283,291	474,689		71	51,375	1,102	673,323
14 Clothing, men's, custom work and repairing.	85	232,193	3,800	2,200	11,111	215,087	96	7	7,250	218	129,054
15 Clothing, men's, factory product	3	9,589			400	9,189	5			15	4,674
16 Clothing, women's, dressmaking	62	54,620	7,700	1,300	8,285	37,335	68	9	6,670	192	63,941
17 Clothing, women's, factory product	3	23,700			2,200	21,500	4	2	2,000	29	12,900
18 Confectionery	18	289,381	29,700	64,766	65,577	129,338	18	39	25,090	103	45,859
19 Corsets	3	1,056,885	58,000	123,497	137,500	732,882	19	142	98,905	1,493	523,583
20 Dyeing and cleaning	4	1,165			640	525	4	2	1,000	6	2,032
21 Electrical construction and repairs	3	6,125			725	5,400	3	4	2,156	10	5,578

BY SPECIFIED INDUSTRIES: 1900—Continued.

MERIDEN—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
15	\$11,475					\$758	\$584	\$62	\$112		\$10,090	\$9,885	\$205	\$29,300	26
20	10,870					4,320	558	55	3,707		10,759	10,581	228	32,339	27
2	1,800				3	1,098	954	2	142		1,143	1,035	108	8,855	28
2,295	1,195,947	691	\$208,364	64	13,090	471,236	18,912	34,658	417,716		2,392,308	2,298,095	94,215	5,293,104	29

planing mill products, including sash, doors, and blinds, 1; musical instruments and materials, not specified, 1; musical instruments, pianos and materials, 2; paving and paving materials, 1; photolithographing and photoengraving, 2; printing and publishing, newspapers and periodicals, 2; roofing and roofing materials, 1; sausage, 1; smelting and refining, not from the ore, 1; soap and candles, 1; starch, 1; varnish, 1; window shades, 1; wood, turned and carved, 1; woolen goods, 1.

NEW BRITAIN.

6,542	\$3,849,085	1,681	\$442,228	215	\$49,804	\$956,848	\$36,019	\$73,294	\$642,416	\$205,119	\$5,074,396	\$4,863,305	\$211,091	\$12,260,782	1
4	2,550					1,183	718	76	289	100	11,270	10,927	343	26,850	2
8	5,254					1,008	845	29	134		6,467	6,098	369	25,420	3
6	2,718					1,638	1,554	9	70		7,161	6,894	267	21,107	4
14	7,573					945	380	211	354		42,988	42,925	63	63,000	5
42	21,632					2,854	1,764	366	724		72,210	70,280	1,930	117,067	6
144	51,828					202,245	580	668	906	200,091	193,003	197,770	233	528,425	7
16	8,292					1,170	690	224	256		9,348	8,962	386	27,655	8
22	12,549	3	797			3,340	2,264	11	565	500	15,912	15,478	434	46,002	9
1	700	4	968			390	370		20		5,212	5,200	12	11,015	10
4	2,040					1,762	1,440	18	304		3,957	3,768	199	14,900	11
5	2,604					757		257	500		57,625	57,126	499	71,789	12
534	267,984	6	1,623			53,716	120	4,952	43,129	515	167,941	144,485	23,506	676,571	13
6	3,334					992	903	19	70		6,912	6,815	97	16,120	14
3,396	1,686,396	584	134,131	131	20,808	437,327	6,000	35,192	396,135		2,483,800	2,387,116	96,184	5,796,636	15
26	9,480					468	60	212	196		30,584	30,560	24	47,900	16
55	22,179					1,792	125	82	85	1,500	39,971	39,941	30	84,114	17
7	3,100	27	8,488			5,538	4,332	131	1,075		42,235	42,135	100	72,400	18
63	38,724					701	540	22	139		5,449	5,264	185	16,950	19
1	425	3	866			2,057	1,294	262	511		29,975	29,753	217	92,065	20
35	20,256					2,080	1,394	51	635		4,066	3,905	161	14,600	21
11	5,447					1,976	1,369	80	327	200	43,786	43,535	251	92,709	22
62	38,678	2	1,300	2	312	1,277	762	76	449		7,044	6,639	405	19,817	23
		5	621	5	621	5,816	1,256	389	3,171	1,000	23,066	21,710	1,356	69,614	24
8	1,750					1,154	960	54	140		2,920	2,890	30	8,450	25
25	13,094	4	1,400			5,434	1,000	87	4,347		12,425	12,323	103	44,801	26
4	2,760					1,435	1,196	39	260		1,490	1,480	10	9,700	27
2,048	1,088,438	1,048	292,655	77	28,063	217,738	4,113	29,787	182,625	1,218	1,743,078	1,659,381	83,697	4,224,255	28

ber, planing mill products, including sash, doors, and blinds, 2; mattresses and spring beds, 1; models and patterns, 1; monuments and tombstones, 1; needles and pins, 1; photolithographing and photoengraving, 1; rubber and elastic goods, 2; shirts, 1; soap and candles, 1; stamped ware, 1; surgical appliances, 1; tinsmithing, coppersmithing, and sheet-iron working, 1.

NEW HAVEN.

15,398	\$8,547,842	4,884	\$1,428,956	259	\$40,273	\$3,181,004	\$289,483	\$193,099	\$2,277,087	\$421,335	\$18,498,593	\$18,026,797	\$466,796	\$40,762,015	1
19	11,625	8	2,260			2,176	1,258	80	838		22,702	22,397	305	59,880	2
38	20,111					5,861	3,406	108	1,942	405	42,464	41,285	1,179	89,967	3
76	43,144			1	300	9,652	7,322	891	1,434	5	44,564	42,895	2,169	105,019	4
35	15,028			1	155	10,945	9,523	186	1,159	72	32,058	30,911	1,147	168,274	5
33	17,401					9,979	5,141	540	4,293		89,426	89,035	391	163,399	6
217	102,733	371	92,520	15	2,250	30,973	20,524	1,244	9,205		394,539	390,287	4,302	866,584	7
25	17,512					4,588	1,360	1,122	2,106		116,831	114,676	2,155	123,830	8
243	147,576	34	10,250	2	539	65,844	12,229	3,795	49,820		512,928	502,013	10,910	943,872	9
375	245,452					72,768	5,140	1,295	9,067	57,266	411,388	408,386	2,997	830,100	10
163	86,847	3	967			42,394	2,890	2,019	26,268		141,203	136,197	5,006	341,421	11
717	506,077	7	3,445			62,299	6,363	11,958	43,514	1,464	527,526	517,722	9,804	1,384,843	12
1,096	676,121	6	2,207			36,450			36,450		833,957	825,563	8,394	1,600,110	13
195	124,224	12	3,198	11	1,632	107,928	25,283	1,132	8,501	73,012	247,168	245,036	2,082	656,817	14
6	2,314	9	2,360			790	422	10	283	125	20,825	20,720	105	28,980	15
17	11,400	171	52,058	4	483	18,873	8,250	157	1,276	4,190	97,887	96,126	1,761	255,149	16
8	6,750	21	6,150			2,246	1,280	121	845		42,900	42,850	50	70,550	17
71	36,709	32	9,090			37,670	8,300	1,672	27,598		183,937	185,207	3,730	394,331	18
166	105,634	1,297	416,699	30	6,250	34,031	1,923	4,259	27,849		950,680	943,327	7,353	1,893,956	19
5	1,732	1	300			1,596	1,476		120		660	460	200	9,271	20
10	5,678					1,220	741	18	461		13,778	13,768	10	29,385	21

TABLE 8.—MANUFACTURES IN CITIES

NEW HAVEN—Continued.

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
22 Electroplating	4	\$5,260			\$3,300	\$1,960	6		8	\$4,138	
23 Engraving, wood	3	2,950			975	1,975	3				
24 Food preparations	3	103,439	\$43,810	\$20,000	11,500	28,129	11	\$7,144	41	16,108	
25 Foundry and machine shop products	84	2,305,630	249,305	204,567	496,581	1,955,167	24	108,550	911	506,984	
26 Fur goods	8	36,445			2,185	84,260	9	1,520	35	16,168	
27 Furniture, cabinetmaking, repairing, and upholstering	30	90,814	10,700	7,100	28,138	44,876	23	6,744	103	49,049	
28 Furniture, factory product	4	144,039	5,000	7,500	22,432	109,107	3	15,372	50	25,100	
29 Glass, cutting, staining, and ornamenting	4	7,900			2,200	5,700	4	100	10	7,300	
30 Hairwork	4	1,115			65	1,050	4	150	2	400	
31 Hardware	12	2,727,971	246,790	443,822	633,635	1,397,724	9	105,056	2,110	873,044	
32 Hats and caps, not including fur hats, and wool hats	7	18,900			2,100	16,800	7	400	27	12,289	
33 Lamps and reflectors	3	44,209			9,550	34,719	4	1,372	30	17,754	
34 Liquors, malt	4	929,076	86,150	271,250	231,534	341,142	3	40,348	94	80,016	
35 Lock and gun smithing	10	20,425			4,300	16,125	11		13	7,316	
36 Looking-glass and picture frames	7	36,040			715	35,325	9		12	6,930	
37 Lumber, planing mill products, including sash, doors, and blinds	5	631,559	239,200	67,100	65,451	259,808	1	26,993	137	64,470	
38 Marble and stone work	6	194,555	30,000	54,977	16,758	92,820	9	4,500	347	158,220	
39 Masonry, brick and stone	17	164,608	7,050	7,225	81,575	118,758	20	17,980	433	160,169	
40 Mattresses and spring beds	3	63,141			25,777	37,364	4	6,250	30	14,470	
41 Millinery, custom work	27	93,370	2,200	3,250	2,245	85,675	35	27	4,544	45,897	
42 Mineral and soda waters	7	65,275	4,300	14,200	23,300	22,975	8	7,240	27	12,294	
43 Models and patterns	3	10,050	2,000	1,000	2,450	4,600	3		6	4,300	
44 Monuments and tombstones	8	64,886	18,075	6,875	4,317	35,619	9	377	34	18,014	
45 Painting, house, sign, etc	33	41,037	1,400	500	9,602	30,435	38	4,350	136	78,400	
46 Paper hanging	8	18,095	60	150	1,980	15,975	3	3,360	56	35,797	
47 Patent medicines and compounds	16	138,266	500	2,350	10,090	125,826	11	81,077	34	12,909	
48 Paving and paving materials	7	52,404	14,200	13,325	9,150	15,819	8	2,500	59	31,156	
49 Photography	16	32,449			16,427	16,022	19	676	25	14,268	
50 Pickles, preserves, and sauces	3	34,820	3,300	5,700	4,300	21,520	2	3,454	20	8,558	
51 Plumbing, and gas and steam fitting	52	375,671	45,150	34,000	47,660	248,961	62	31	33,481	355	224,482
52 Pottery, terra cotta, and fire-clay products	3	45,245	9,500	10,500	4,700	20,545	2	10,476	36	17,440	
53 Printing and publishing, book and job	35	513,982	33,200	65,950	261,360	148,482	41	31,474	285	127,832	
54 Printing and publishing, newspapers and periodicals	15	235,312			162,577	72,735	9	48,545	127	91,830	
55 Roofing and roofing materials	3	8,475	3,000	1,300	1,675	2,500	3	312	10	7,490	
56 Saddlery and harness	13	36,582	2,000	1,500	4,765	28,617	19		36	21,150	
57 Sewing machines and attachments	3	338,550	6,000	45,000	166,600	120,950	3	10,360	529	237,400	
58 Ship and boat building, wooden	6	17,400	5,500	1,500	3,300	6,300	5		11	7,190	
59 Shirts	6	13,614	100	225	2,470	10,819	4	2,000	23	8,543	
60 Starch	7	375,200	19,500	21,350	157,145	177,205	6	92	57,180	111	39,578
61 Tinsmithing, coppersmithing, and sheet-iron working	22	70,982	7,150	9,600	3,394	46,938	22	4,600	81	50,939	
62 Tobacco, cigars and cigarettes	36	159,625	12,950	29,100	5,025	112,550	41	3,400	313	183,310	
63 Toys and games	4	97,365	3,200	6,300	20,817	67,048	3	7,756	66	23,721	
64 Varnish	3	31,432	400	800	6,572	23,710	3	2,000	8	1,907	
65 Watch, clock, and jewelry repairing	39	22,708	80	120	10,443	12,065	46	500	27	16,946	
66 Wirework, including wire rope and cable	5	165,263	9,450	16,000	48,847	91,166	6	12	17,560	58,417	
67 All other industries ¹	119	13,117,295	655,271	1,259,871	3,964,272	7,237,881	101	440	585,165	7,841	3,814,732

¹ Embraces agricultural implements, 1; ammunition, 1; artificial limbs, 1; bags, paper, 1; bicycles and tricycles, 1; billiard tables and materials, 1; bluing, 1; bookbinding and blank book making, 1; boots and shoes, factory product, 1; boots and shoes, rubber, 1; boxes, cigar, 1; boxes, wooden packing, 1; brass, 1; brass-ware, 2; bridges, 1; brooms and brushes, 1; buttons, 2; card cutting and designing, 1; carpets, rag, 1; carriages and sleds, children's, 1; cars and general shop construction and repairs by street railroad companies, 1; cheese and butter, urban dairy products, 1; cheese, butter, and condensed milk, factory product, 2; cleansing and polishing preparations, 2; clocks, 1; coffee and spice, roasting and grinding, 2; coffins, burial cases, and undertakers' goods, 1; cooperage, 2; cork, cutting, 1; cotton goods, 1; cutlery and edge tools, 1; druggists' preparations, not including prescriptions, 1; dyeing and finishing textiles, 1; enameling and enameled goods, 1; engraving and desinking, 2; engraving, steel, including plate printing, 2; fertilizers, 1; files, 1; firearms, 2; flavoring extracts, 2; flouring and grist mill products, 1; fur hats, 1; gas, illuminating and heating, 1; gas machines and meters, 1; gas and oil stoves, 1; glue, 1; grease and tallow, 1; grindstones, 1; hard-

WATERBURY.

1 All industries	404	\$23,421,640	\$1,948,595	\$3,271,036	\$5,807,273	\$12,394,736	382	699	\$1,005,814	14,914	\$7,564,198
2 Bicycle and tricycle repairing	7	6,173			2,920	2,258	9		7	3,396	
3 Blacksmithing and wheelwrighting	18	95,606	42,175	23,050	11,325	19,056	18	2	1,050	45	32,240
4 Boots and shoes, custom work and repairing	42	8,346	1,000	450	3,074	3,222	43			10	1,154
5 Bottling	14	13,940	500	875	4,135	8,430	14			24	12,654
6 Brass castings and brass finishing	3	4,199,736	165,807	576,254	1,255,034	2,202,691	1	64	140,140	2,239	1,186,960
7 Brassware	6	5,490,356	676,892	805,240	1,895,923	2,612,301	1	99	163,553	2,616	1,386,161
8 Bread and other bakery products	17	99,496	15,530	22,400	19,650	41,916	15	10	7,276	33	50,717
9 Buttons	3	352,423	40,000	50,000	104,653	157,775	1	16	22,318	479	133,821
10 Carpentry	12	288,462	21,700	20,585	29,558	196,619	9	15	23,950	230	147,612
11 Carriages and wagons	4	61,945	22,200	12,650	1,750	25,345	6	3	1,567	36	17,068

BY SPECIFIED INDUSTRIES: 1900—Continued.

NEW HAVEN—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.	
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.									
8	\$4,188					\$1,105	\$880		\$225		\$1,568	\$1,388	\$225	\$11,400
9	4,940	32	\$11,168			1,304	259		30	\$1,015	257	225	32	5,100
903	504,148	6	2,430	2	\$406	19,012	840	\$567	17,605		86,672	85,022	1,650	116,647
11	9,466	24	6,692			84,865	8,580	11,425	64,452	458	742,888	704,884	37,999	1,716,028
98	47,758	4	1,091	1	200	6,569	1,699	41	2,850	2,000	28,850	28,681	219	78,425
49	24,900	1	200			14,627	8,266	579	3,882	1,900	75,884	78,998	1,891	188,062
10	7,800					13,975	495	165	8,715	4,600	140,775	140,335	440	245,495
						1,012	725	60			3,004	2,857	147	17,698
1,761	797,351	289	400	60	10,317	493	406	2	85		1,898	1,370	23	4,120
			70,376			221,183	5,575	20,940	178,668	16,000	864,785	829,280	35,505	2,218,932
21	10,806	5	1,288	1	200	4,015	1,470	39	2,006	500	24,189	28,984	246	54,409
28	17,466			2	288	1,681	1,150	101	380		10,480	9,532	948	39,280
94	80,016					338,248	4,000	5,809	828,939		180,290	168,794	11,496	799,441
9	5,816	3	1,200	1	300	1,740	1,281	129	330		6,619	6,278	278	23,450
11	6,780			1	150	1,499	1,215	32	252		35,560	38,307	253	61,375
187	64,470					38,605		3,985	84,620		411,111	410,841	770	568,910
347	153,220					4,347	402	925	2,020	1,000	156,682	151,382	5,300	388,915
483	160,169					102,390	1,285	406	10,673	90,025	189,571	183,176	1,035	634,952
26	18,810	4	1,160			7,528	1,816	459	6,253		50,013	49,218	795	117,913
4	1,808	107	44,089			14,148	11,184	464	2,400	100	115,213	118,154	2,059	235,150
27	12,294					6,961	1,505	869	5,086		31,449	30,557	892	76,537
34	4,800					803	540	69	194		8,544	8,102	542	11,300
6	15,014					3,308	180	747	725	1,656	18,958	18,543	415	59,326
120	75,270	15	2,580	1	250	12,054	4,219	216	7,019		65,835	65,932	403	213,065
56	85,797					4,392	1,326	144	2,922		25,453	25,251	202	79,764
14	6,022	20	6,887			55,698	5,323	847	77,023	2,500	67,153	66,234	919	257,719
59	31,155					1,216	12	421	783		23,387	22,747	640	82,217
20	12,932	5	1,936			9,294	7,399	49	1,201	645	19,022	19,555	393	67,844
17	7,796	3	782			7,019	600	180	6,239		16,154	15,768	386	43,957
351	223,982			4	500	40,493	13,621	1,623	25,249		307,251	304,490	2,761	765,320
36	17,440					2,812	535	539	1,738		19,868	14,673	5,190	54,330
218	110,225	67	17,607			182,459	14,615	2,397	41,558	78,889	184,999	179,376	5,623	583,889
106	89,524	3	1,012	18	1,294	40,248	7,554	1,646	14,688	16,410	80,279	76,636	3,643	354,514
10	7,490					468	135	80	303		20,773	20,623	150	31,325
84	20,650	2	500			5,287	8,643	210	984	500	19,765	19,310	455	67,404
413	209,000	100	26,000	16	2,400	42,719	2,800	1,019	5,900	33,000	136,593	132,175	4,418	497,800
11	7,190					808	396	37	325		6,925	6,920	5	19,635
5	2,740	23	5,808			2,281	940	2	290	990	17,723	17,350	378	33,423
106	37,588	5	1,990			56,856	1,180	1,561	51,727	2,388	284,764	285,430	1,384	587,000
81	50,939					5,425	2,912	232	2,221		60,166	59,403	783	161,827
243	167,020	68	16,190	2	100	60,440	5,234	9,205	46,001		229,446	223,638	808	558,423
39	16,771	19	5,625	8	1,325	15,975	1,600	297	2,138	12,000	43,234	41,939	1,295	104,334
8	1,007					4,380	550	230	3,600		37,062	36,764	298	49,311
24	16,190	2	600	1	156	12,855	6,289	180	1,821	4,575	17,547	16,937	610	74,115
142	51,334	31	6,667	2	416	15,554	815	1,132	13,607		186,142	184,683	1,459	245,832
5,694	3,211,531	2,072	592,899	75	10,362	1,179,765	82,244	93,482	1,046,561	7,528	8,807,399	8,540,486	266,913	18,112,436

ware, saddlery, 2; hosiery and knit goods, 2; ice, artificial, 1; iron and steel, 2; iron and steel, bolts, nuts, washers, and rivets, 2; iron and steel, forgings, 2; iron-work, architectural and ornamental, 2; leather goods, 2; leather, tanned, curried, and finished, 1; lime and cement, 2; millinery and lace goods, 2; mucilage and paste, 1; musical instruments, organs and materials, 1; musical instruments, pianos and materials, 1; needles and pins, 1; oil, not elsewhere specified, 1; optical goods, 2; paper and wood pulp, 1; pens, fountain, and stylographic, 1; perfumery and cosmetics, 1; photographic apparatus, 1; photolithographing and photo-engraving, 1; plastering and stuccowork, 1; plumbers' supplies, 1; registers, car fare, 1; rubber and elastic goods, 1; safes and vaults, 1; sausage, 1; screws, machine, 1; sewing machine repairing, 2; silk and silk goods, 1; slaughtering and meat packing, wholesale, 1; slaughtering, wholesale, not including meat packing, 1; smelting and refining, not from the ore, 2; soap and candles, 1; sporting goods, 1; springs, steel, car, and carriage, 1; stamped ware, 1; steam packing, 1; stereotyping and electrotyping, 2; surgical appliances, 1; tools, not elsewhere specified, 2; trunks and valises, 1; window shades, 2; wood, turned and carved, 2.

WATERBURY.

10,779	\$6,108,534	3,787	\$1,369,527	348	\$86,137	\$1,664,050	\$122,849	\$115,560	\$1,143,591	\$282,050	\$19,821,401	\$19,303,364	\$518,037	\$33,778,905	1
7	3,396					1,936	1,387		424	125	6,281	5,843	438	18,255	2
45	32,240					3,943	1,590	435	1,918		21,180	20,163	1,017	85,145	3
10	4,154					5,133	4,700	18	415		12,259	11,688	571	40,947	4
24	12,654					4,906	2,200	165	2,541		51,224	50,846	378	94,906	5
1,614	968,360	592	212,500	33	6,100	207,275	96	17,329	189,850		3,036,785	2,931,085	105,700	5,050,589	6
1,866	1,147,012	664	225,048	86	14,101	322,535		23,708	298,827		5,784,543	5,646,821	187,922	8,188,492	7
81	49,926	1	416	1	375	10,420	2,883	495	7,057		207,583	195,925	9,588	351,396	8
178	104,537	278	76,415	28	2,869	99,680	2,789	2,808	21,851	72,232	248,242	242,119	6,123	643,354	9
280	147,612					182,437	5,273	822	5,794	170,595	353,889	332,203	1,686	834,070	10
35	16,850			1	208	2,992	120	596	1,851	425	12,616	12,020	596	46,746	11

TABLE 8.—MANUFACTURES IN CITIES

WATERBURY—Continued.

	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
12 Clothing, men's, custom work and repairing.	28	\$11,030	\$7,100	\$2,600	\$4,175	\$27,155	30	3	\$3,100	47	\$24,038
13 Clothing, women's, dressmaking	18	9,107			3,017	6,090	23			90	84,039
14 Clothing, women's, factory product	3	4,875			575	1,300	3			23	10,372
15 Confectionery	6	8,950			3,750	5,200	7	7	1,456	6	3,281
16 Electrical construction and repairs	3	4,400			400	4,000	4	1	150	7	3,100
17 Engraving and diesinking	6	12,750	2,000	900	7,850	2,500	6			2	1,120
18 Foundry and machine shop products	12	563,267	24,700	74,350	120,422	343,795	6	44	67,872	720	401,241
19 Furniture, cabinetmaking, repairing, and upholstering.	5	3,150			300	2,850	5			6	3,888
20 Looking-glass and picture frames	5	11,350			655	10,695	7	1	676	2	628
21 Masonry, brick and stone	15	175,331	34,800	24,400	26,399	89,735	21	21	14,136	332	203,515
22 Millinery, custom work	15	54,234	5,000	4,000	1,159	44,075	19	1	1,000	72	33,107
23 Mineral and soda waters	5	23,900	7,100	3,000	7,100	6,700	8			12	6,010
24 Painting, house, sign, etc	20	124,778	4,575	4,709	7,540	107,933	20	6	4,252	110	72,475
25 Paper hanging	5	21,665	1,050	525	1,240	18,850	3	10	6,960	43	23,196
26 Paving and paving materials	6	20,375	4,700	3,500	2,050	10,125	7			43	19,374
27 Photography	7	15,250		1,000	8,750	5,500	9			9	5,453
28 Plastering and stuccowork	4	5,075	1,200	600	225	3,050	4			15	11,207
29 Plumbing, and gas and steam fitting	18	222,032	5,200	5,150	10,710	201,022	16	22	17,111	165	83,068
30 Printing and publishing, book and job	7	53,077			32,394	26,083	6	13	7,834	37	20,655
31 Printing and publishing, newspapers and periodicals.	3	146,792	10,000	25,000	52,700	59,092	1	8	9,246	103	75,533
32 Saddlery and harness	4	12,650			1,200	11,450	4			12	6,304
33 Stamped ware	4	712,710	44,300	87,500	211,450	369,460	2	32	56,277	820	352,627
34 Tinsmithing, copper-smithing, and sheet-iron working.	3	44,435	6,000	3,000	7,425	23,010	2	3	3,500	47	23,654
35 Tobacco, cigars and cigarettes	11	27,343			585	26,808	12			16	13,395
36 Watch, clock, and jewelry repairing	12	6,702			3,700	3,002	10			10	6,252
37 All other industries	53	10,496,321	805,006	1,514,307	2,461,830	5,714,118	32	318	452,330	6,236	3,093,733

1 Embraces awnings, tents, and sails, 1; bicycles and tricycles, 1; bookbinding and blank book making, 1; boxes, fancy and paper, 2; brass and copper, rolled, 2; chemicals, 1; clocks, 2; cutlery and edge tools, 1; dyeing and cleaning, 1; flouring and grist mill products, 1; fur goods, 1; fur hats, 1; gas and lamp fixtures, 1; gas, illuminating and heating, 1; grease and tallow, 2; hand stamps, 1; hardware, 2; hosiery and knit goods, 1; instruments, professional and scientific, 2; iron and steel, nails and spikes, cut and wrought, including wire nails, 1; lamps and reflectors, 1; liquors, malt, 1; lock and gun smithing, 1; lumber, planing mill

TABLE 9.—MANUFACTURES IN CITIES AND

1	Total for cities and towns	4,129	\$140,833,217	\$7,509,001	\$23,357,853	\$36,110,396	\$73,846,967	4,277	3,609	\$4,596,741	77,661	\$34,436,297
2 Ansonia	94	6,809,281	401,125	1,203,000	1,453,241	3,246,015	88	190	202,296	3,407	1,769,361	
3 Berlin	30	1,913,095	134,761	306,865	373,105	1,100,334	25	61	110,094	996	500,530	
4 Bethel	47	437,300	16,330	52,500	132,766	236,214	54	43	47,370	730	333,252	
5 Branford	40	802,721	123,195	219,378	133,288	321,260	37	25	31,652	903	426,952	
6 Bristol	143	3,764,628	306,052	823,698	911,246	1,718,532	135	142	199,424	2,476	1,188,943	
7 Brooklyn	17	1,404,043	29,650	391,825	616,975	365,593	13	11	18,033	725	226,824	
8 Danbury	233	3,636,619	173,048	345,101	1,051,208	2,066,632	341	163	146,965	4,296	2,017,155	
9 Derby	34	4,323,442	135,300	522,432	1,222,402	2,337,759	79	72	112,427	2,311	1,116,078	
10 East Haddam	27	390,850	11,750	42,200	109,750	227,150	27	6	3,400	337	104,754	
11 East Hartford	56	866,125	95,120	239,592	315,165	186,248	57	21	32,353	439	212,424	
12 East Windsor	26	751,474	18,975	149,422	149,256	401,421	24	12	18,829	361	158,775	
13 Enfield	40	4,323,477	71,210	381,575	1,273,771	2,295,921	41	63	107,556	1,459	579,333	
14 Fairfield	42	231,648	14,290	34,265	46,875	126,118	47	7	13,200	130	71,727	
15 Farmington	33	554,437	59,550	110,200	153,990	231,697	39	26	30,866	553	226,135	
16 Glastonbury	42	1,388,950	53,080	255,574	411,762	668,594	41	49	59,934	602	302,944	
17 Greenwich	74	1,453,496	76,000	141,690	446,666	739,140	76	55	61,104	915	408,556	
18 Griswold	30	2,175,333	149,600	359,892	629,049	536,842	30	16	33,064	813	320,260	
19 Groton	16	30,070	11,975	11,975	7,910	27,210	20	6	4,500	94	55,826	
20 Guilford	41	247,715	22,900	36,400	92,055	96,300	47	5	2,350	132	89,545	
21 Hamden	25	801,581	94,802	152,914	206,469	347,396	25	34	46,913	494	204,010	
22 Huntington	64	3,121,834	184,200	504,733	735,067	1,697,829	63	98	130,927	1,622	701,333	
23 Killingly	74	2,174,445	213,247	392,441	677,765	801,032	70	35	46,402	1,263	441,033	
24 Manchester	93	7,350,806	160,100	1,117,850	1,379,689	4,678,167	98	137	217,290	3,113	1,370,656	
25 Middletown	183	5,100,485	343,664	351,250	1,199,573	2,700,998	203	155	171,400	2,916	1,199,713	
26 Milford	43	365,461	10,475	35,025	62,533	257,431	45	19	22,833	325	137,323	
27 Montville	27	1,229,620	69,856	177,919	267,342	714,473	29	32	42,373	655	215,310	
28 Naugatuck	75	6,673,634	190,030	609,417	895,236	4,978,971	67	83	121,944	3,297	1,605,944	
29 New Hartford	27	870,874	44,100	197,125	182,342	447,307	24	14	17,674	1,006	289,244	
30 New London	235	4,522,003	345,825	733,005	1,123,151	2,320,022	261	137	131,401	2,658	1,196,213	
31 New Milford	58	733,294	47,975	220,308	151,530	363,481	67	41	47,053	526	233,231	
32 Newtown	29	449,505	4,510	72,928	64,720	307,347	29	12	21,250	312	146,122	
33 Norwalk	247	4,129,841	367,034	592,205	1,009,719	2,160,833	265	124	150,776	3,172	1,586,509	
34 Norwich	273	8,556,437	793,438	1,595,188	2,199,900	3,977,911	287	189	233,460	4,411	1,933,600	
35 Orange	52	1,017,066	31,539	100,565	180,617	754,345	52	26	34,296	531	252,425	
36 Plainfield	51	2,713,962	189,550	571,350	934,065	968,997	55	22	38,553	1,205	424,147	
37 Plainville	35	399,775	26,477	33,331	148,032	141,335	33	13	10,291	337	136,315	
38 Portland	28	463,535	24,240	55,202	158,339	225,304	28	13	19,137	497	134,361	
39 Preston	19	650,347	11,020	113,950	118,175	407,702	24	6	3,000	264	96,437	
40 Putnam	93	2,019,635	124,303	342,903	660,342	891,132	91	43	48,009	1,631	537,037	
41 Seymour	35	2,148,123	115,700	272,390	637,732	1,122,251	32	47	70,324	333	439,903	

BY SPECIFIED INDUSTRIES: 1900—Continued.

WATERBURY—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—Continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
46	\$24,314	1	\$324			\$15,458	\$5,120	\$101	\$1,648	\$8,494	\$40,864	\$30,935	\$929	\$113,617	12
16	9,889	74	24,150			5,580	4,161	477	332	60	108,701	108,053	648	171,422	13
14	7,904	9	2,968			1,752	1,344	17	391		20,130	20,046	84	40,320	14
6	3,281					1,978	1,280	34	659		18,207	17,785	422	37,554	15
7	3,100					372	294	6	72		8,861	8,750	111	17,642	16
2	1,120					787	498	35	254		452	297	155	12,515	17
718	400,841			2	\$400	44,193	4,070	5,511	34,362	250	227,361	205,188	22,173	990,993	18
6	3,888					1,642	996		646		6,608	6,433	175	14,167	19
2	628					1,055	721	15	319		6,008	5,813	195	13,415	20
375	202,475			7	1,040	38,810	2,246	1,236	10,328	25,000	288,372	287,452	920	598,671	21
		72	38,107			12,235	5,584	288	5,113	1,300	70,223	69,229	994	136,021	22
12	6,010					3,514	661	202	2,651		18,366	17,908	458	48,370	23
104	70,005	6	2,470			7,804	2,762	282	4,760		65,951	65,156	795	179,070	24
43	25,196					4,348	2,320	68	1,960		35,035	34,763	272	70,230	25
43	19,374					5,572	280	97	4,215	980	22,250	21,981	269	60,075	26
7	4,412	2	1,041			4,303	3,197	27	1,079		8,435	7,946	489	30,840	27
15	11,207					2,658	165	8	710	1,775	10,784	10,784		29,126	28
165	83,068					14,894	7,122	624	7,138		179,978	178,241	1,737	357,933	29
31	18,820	3	1,318	3	517	6,681	2,808	290	3,483	100	23,551	22,499	1,052	65,202	30
39	68,516	13	6,887	1	180	16,568	1,050	395	15,123		19,063	17,035	2,028	135,233	31
12	6,804					1,733	1,510	45	178		12,489	12,308	181	24,540	32
455	233,677	306	100,449	59	18,501	24,670		3,909	20,761		444,015	436,400	7,615	975,822	33
47	23,654					3,219	1,020	158	2,041		69,029	68,488	546	108,840	34
16	13,395					5,384	1,755	50	3,579		14,255	13,876	379	41,375	35
10	6,252					2,293	1,791		502		2,835	2,486	349	17,913	36
4,398	2,374,463	1,771	677,431	127	41,896	595,310	49,118	55,219	490,259	714	8,334,976	8,128,904	211,072	14,140,550	37

products, including sash, doors, and blinds, 2; marble and stone work, 1; mattresses and spring beds, 1; models and patterns, 1; monuments and tombstones, 1; needles and pins, 1; patent medicines and compounds, 1; plated and britannia ware, 2; roofing and roofing materials, 1; rubber and elastic goods, 1; sausage, 2; shirts, 1; smelting and refining, not from the ore, 1; tools, not elsewhere specified, 2; upholstering materials, 2; varnish, 1; watch and clock materials, 1; watches, 1; wirework, including wire rope and cable, 1.

TOWNS UNDER 20,000 IN POPULATION: 1900.

55,645	\$28,141,462	20,000	\$5,945,994	2,010	\$348,841	\$3,433,463	\$619,782	\$569,553	\$6,411,933	\$332,145	\$39,494,891	\$37,017,114	\$2,477,777	\$156,664,353	1
2,886	1,627,555	515	141,203	6	603	348,682	13,496	27,314	293,367	14,505	15,051,022	14,786,728	264,294	18,736,179	2
902	470,495	92	23,681	2	344	70,972	1,186	3,708	63,098	3,035	1,242,414	1,194,699	47,715	2,222,134	3
533	319,905	244	62,897	3	450	70,204	5,989	2,194	44,266	17,755	592,921	575,168	17,753	1,229,651	4
803	404,977	70	16,860	30	6,115	40,871	1,641	2,682	32,178	4,370	240,507	213,199	26,308	917,147	5
1,920	1,030,305	541	155,292	15	3,346	207,650	13,281	19,152	162,265	12,952	2,224,314	2,142,140	82,165	4,361,097	6
413	146,606	267	76,346	45	3,372	38,895	621	7,089	30,585	600	351,198	338,709	12,489	756,235	7
3,004	1,695,632	1,276	379,332	16	2,191	406,556	52,817	16,760	329,792	7,187	3,542,000	3,422,153	119,847	7,213,555	8
1,696	955,353	580	153,190	35	7,535	302,878	14,412	13,142	260,224	15,100	1,304,256	1,246,919	57,337	3,456,561	9
179	63,619	158	40,321	5	814	73,618	679	2,203	56,795	13,739	209,940	206,678	3,262	482,649	10
359	190,471	79	21,901	1	52	82,460	2,099	3,720	58,484	18,157	475,017	446,487	28,560	923,769	11
249	129,744	94	26,414	13	2,617	224,571	495	3,377	218,824	1,375	541,571	520,637	20,934	1,016,216	12
919	440,120	486	131,876	54	7,857	100,058	3,194	15,609	80,055	1,200	1,139,686	1,096,618	43,118	2,090,609	13
120	70,111	10	1,616			49,276	1,436	702	37,138	10,000	319,911	316,389	3,522	583,225	14
405	188,300	147	37,535	1	300	54,409	2,149	3,345	44,915	4,000	352,193	322,567	29,576	822,367	15
438	241,968	150	54,416	29	6,560	215,614	3,003	5,021	205,662	1,225	698,970	678,494	20,476	1,523,404	16
811	382,600	93	24,176	11	1,780	91,999	7,573	3,588	33,033	47,800	764,776	743,737	21,039	1,541,933	17
598	271,836	176	49,296	39	8,134	123,772	1,358	10,613	110,611	1,190	505,748	464,263	51,485	1,173,969	18
92	54,989	2	831			6,032	1,409	332	1,791	2,500	83,781	83,781	1,220	197,103	19
140	79,755	37	8,640	5	1,150	7,561	1,094	3,383	2,370		119,083	116,373	2,710	293,400	20
398	181,164	39	21,598	7	1,243	35,611	2,864	3,074	18,495	11,178	373,190	349,614	23,576	757,239	21
1,142	571,324	426	121,145	54	8,364	219,959	16,700	10,372	170,017	22,370	2,287,661	2,178,321	89,340	3,917,477	22
793	314,055	424	120,279	46	6,699	131,734	9,755	12,151	97,823	12,000	811,679	778,084	33,595	1,705,397	23
1,870	961,899	1,224	401,807	24	6,950	194,812	7,247	25,719	139,364	21,482	3,084,627	3,009,460	75,167	5,939,943	24
1,969	951,731	790	221,926	157	26,056	237,604	13,618	20,147	163,292	30,547	2,636,493	2,571,815	64,678	4,825,649	25
199	101,758	116	34,668	10	900	167,447	5,557	463	6,417	3,010	244,282	239,432	4,850	502,036	26
420	151,637	203	53,505	32	5,663	50,514	1,366	6,054	42,544	550	788,588	769,039	19,549	1,232,067	27
2,224	1,205,675	1,041	452,107	32	7,862	323,334	24,001	34,463	235,220	29,550	6,152,981	6,055,757	97,224	9,123,199	28
489	178,636	429	96,670	88	13,938	37,237	1,252	4,876	21,009	10,100	626,927	620,899	6,028	1,080,322	29
1,381	998,219	761	195,593	16	2,406	501,879	39,620	11,483	311,604	139,172	2,804,536	2,767,231	37,305	5,569,615	30
438	221,142	84	30,781	4	1,308	62,530	3,342	1,743	33,375	19,070	412,697	387,042	25,655	907,907	31
290	142,114	22	4,008			23,737	878	2,039	20,820		597,998	577,823	20,175	878,610	32
2,350	1,321,645	791	259,035	31	5,779	296,075	45,572	9,840	168,795	71,908	2,261,195	2,202,470	58,725	5,097,720	33
3,220	1,671,307	1,051	21,692	140	21,692	619,238	54,673	43,375	452,585	63,105	4,321,078	4,142,953	178,125	8,383,343	34
426	229,573	87	19,578	18	3,274	58,522	2,798	4,816	36,463	14,450	1,542,471	1,528,286	14,185	2,168,435	35
748	287,931	397	123,261	60	12,955	42,665	2,785	10,011	28,799	1,120	989,813	961,511	28,302	1,611,078	36
213	101,520	110	32,475	14	2,820	17,664	1,532	2,103	13,624	400	232,533	223,997	8,536	460,471	37
985	157,256	93	24,655	19	2,450	9,322	763	687	8,372		322,432	295,890	26,542	597,397	38
206	82,331	58	14,156			38,256	326	1,757	35,453	720	288,390	282,891	5,999	477,423	39
849	342,424	664	173,332	118	21,281	122,376	21,537	15,564	79,260	6,015	1,097,136	1,073,045	24,091	1,928,803	40
750	414,136	79	25,122	4	600	45,071	6,								

TABLE 9.—MANUFACTURES IN CITIES AND

CITIES AND TOWNS.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
42 Southington.....	65	\$2,788,709	\$164,770	\$474,800	\$880,897	\$1,254,442	55	70	\$108,422	1,415	\$627,604
43 Stafford.....	75	2,061,474	91,800	275,801	414,766	1,279,607	78	58	57,457	1,061	899,876
44 Stamford.....	185	5,189,195	264,424	893,765	1,755,979	2,335,027	208	288	264,622	2,841	1,482,540
45 Stonington.....	118	3,788,679	90,806	518,845	1,110,505	2,014,023	180	84	127,514	1,967	902,740
46 Thomaston.....	23	1,778,944	85,567	189,900	370,957	1,182,520	21	86	51,980	1,154	545,479
47 Thompson.....	19	4,511,383	26,495	939,720	1,722,603	1,822,585	19	45	64,042	1,766	575,567
48 Torrington.....	108	6,544,511	314,614	854,519	1,135,105	4,240,273	112	152	217,559	3,522	1,704,291
49 Vernon.....	123	5,743,445	270,475	565,417	1,957,285	3,950,268	122	68	107,343	2,449	928,886
50 Wallingford.....	73	5,882,134	250,103	744,700	1,260,375	3,125,951	63	162	285,197	2,270	1,160,551
51 Watertown.....	37	536,524	20,695	77,000	61,245	877,584	39	24	39,255	501	166,340
52 Westport.....	35	343,948	24,710	47,213	88,577	183,448	31	31	46,542	225	101,788
53 Winchester.....	133	2,971,429	232,649	423,622	615,919	1,694,239	136	156	170,199	1,746	753,192
54 Windham.....	114	5,856,194	144,503	1,823,055	2,190,888	1,693,248	122	90	97,980	2,514	948,041
55 Windsor.....	40	1,016,549	47,525	183,003	313,871	472,150	39	49	43,200	482	227,127
56 Windsor Locks.....	37	2,117,150	168,749	404,405	613,657	930,348	35	38	53,051	831	331,402

TOWNS UNDER 20,000 IN POPULATION: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
1,304	\$608,269	111	\$24,385			\$112,884	\$2,724	\$13,788	\$94,627	\$1,750	\$797,102	\$735,267	\$61,835	\$1,994,564	42
650	278,174	341	109,095	70	\$12,607	105,606	8,338	7,802	82,450	7,016	1,847,143	1,302,221	44,922	2,177,535	43
2,480	1,339,289	276	77,881	85	15,870	404,452	34,551	20,474	390,827	18,600	2,059,725	1,932,329	127,396	4,743,704	44
1,562	785,520	356	110,891	49	6,329	344,536	21,612	8,661	290,076	24,187	1,312,285	1,269,724	42,561	3,231,428	45
890	478,939	219	64,929	45	6,611	95,997	2,935	8,167	84,895		1,486,183	1,457,150	28,938	2,374,481	46
1,060	399,025	576	154,357	130	22,185	62,236	9,017	10,624	42,495	100	928,432	898,277	30,155	1,645,476	47
3,106	1,546,716	309	131,632	107	25,943	409,102	34,355	28,011	264,247	32,489	6,637,684	6,538,200	154,484	10,017,121	48
1,481	662,560	377	251,446	91	14,850	419,062	8,235	30,127	395,852	45,348	3,245,493	3,190,130	55,363	5,493,418	49
1,776	1,019,024	474	137,718	20	3,809	268,756	6,754	14,812	246,890	300	2,813,410	2,760,795	52,615	5,238,280	50
208	97,697	235	66,134	8	2,509	15,801	1,368	3,254	5,754	5,425	629,538	622,666	6,872	936,266	51
153	82,952	70	18,700	2	136	32,129	3,225	824	18,672	9,408	234,493	278,061	6,432	556,668	52
1,136	578,602	581	170,132	29	4,458	169,955	13,700	12,455	121,403	22,397	1,529,704	1,494,554	35,150	2,923,822	53
1,240	563,682	1,112	361,953	162	22,406	209,638	16,938	23,850	146,102	17,718	1,520,562	1,479,642	40,920	3,436,033	54
357	192,004	118	33,720	7	1,403	35,448	4,194	3,916	24,438	2,900	508,427	486,857	21,570	921,829	55
465	226,341	350	101,836	16	3,225	87,298	5,929	6,168	75,001	200	631,785	588,320	43,465	1,311,768	56

Twelfth Census of the United States.

CENSUS BULLETIN.

No. 110.

WASHINGTON, D. C.

November 12, 1901.

MANUFACTURES.

ARKANSAS.

HON. WILLIAM R. MERRIAM,
Director of the Census.

SIR: I transmit herewith, for publication in bulletin form, the statistics of manufacturing and mechanical industries for the state of Arkansas for the census year 1900, taken in accordance with the provisions of section 7 of the act of March 3, 1899. This section requires that "The schedules of inquiries relating to the products of manufacturing and mechanical establishments shall embrace the name and location of each establishment; character of organization, whether individual, cooperative, or other form; date of commencement of operations; character of business or kind of goods manufactured; amount of capital invested; number of proprietors, firm members, copartners, or officers, and the amount of their salaries; number of employees, and the amount of their wages; quantity and cost of materials used in manufactures; amount of miscellaneous expenses; quantity and value of products; time in operation during the census year; character and quantity of power used; and character and number of machines employed."

In each of the above particulars the requirements of the law have been observed, but certain of the data thus elicited are reserved for publication in the final volumes.

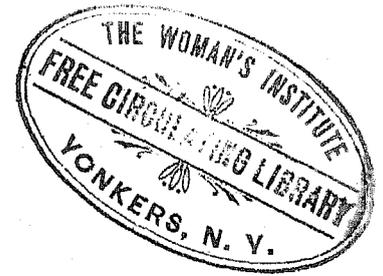
These statistics were gathered partly by enumerators and partly by special agents. The presentation of the manufacturing statistics of cities by specified industries at the present census is confined to cities having a population of 20,000 or over, and for this reason detailed statistics are presented only for the city of Little Rock. Wherever the phrase "urban manufactures" is used in this bulletin, it applies only to those cities which were withdrawn from the enumerators and committed to special agents, and only to manufacturing establishments within the corporate limits of such places.

The statistics for Arkansas are presented in 9 tables: Table 1 showing comparative figures for the state at the

several censuses; Table 2 showing all the industries of the state divided between the hand trades and manufactures proper, and also the statistics of an eleemosynary institution and establishments with a product of less than \$500, which two latter classes were not reported at previous censuses; Table 3 showing the statistics of the 7 leading industries of the state for 1890 and 1900; Table 4 showing the totals for the city of Little Rock for the censuses of 1890 and 1900; Table 5 showing the urban manufactures of the state in comparison with the totals for the entire state and the state exclusive of the cities withdrawn from the enumerators; Table 6 showing the statistics for the state by counties; Table 7 showing the statistics for the state by specified industries; Table 8 showing the statistics of the city of Little Rock by specified industries; and Table 9 showing the totals for all industries in the cities withdrawn from enumerators (exclusive of those for the city of Little Rock, shown in Table 8).

Table 1 shows the growth of manufactures in Arkansas for the half century which terminates with the Twelfth Census. The manufacturing statistics of the censuses prior to 1850 were too imperfect and fragmentary in character to make it proper to reproduce them in such a table as a measure of industrial growth in the first half of the century. Owing to changes in the method of taking the census, comparisons between the earlier and later decades, represented in Table 1, should be drawn only in the most general way. Nevertheless, the rate of growth in Arkansas manufactures may be fairly inferred from the figures given.

In drafting the schedules of inquiry for the census of 1900 care was taken to preserve the basis of comparison with prior censuses. Comparison may be made safely with respect to all the items of inquiry except those relating to capital, salaried officials, clerks, etc., and their salaries, the average number of employees, and the total amount of wages paid. Live capital, that is, cash on



hand, bills receivable, unsettled ledger accounts, raw materials, stock in process of manufacture, finished products on hand, and other sundries, was first called for at the census of 1890. No definite attempt was made, prior to the census of 1890, to secure a return of live capital invested.

Changes were made in the inquiries relating to employees and wages in order to eliminate defects found to exist on the form of inquiry adopted in 1890. At the census of 1890 the average number of persons employed during the entire year was called for, and also the average number employed at stated weekly rates of pay, and the average number was computed for the actual time the establishments were reported as being in operation. At the census of 1900 the greatest and least numbers of employees were reported, and also the average number employed during each month of the year. The average number of wage-earners (men, women, and children) employed during the entire year was ascertained by using 12, the number of calendar months, as a divisor into the total of the average numbers reported for each month. This difference in the method of ascertaining the average number of wage-earners during the entire year may have resulted in a variation in the number, and should be considered in making comparisons.

At the census of 1890 the number and salaries of proprietors and firm members actively engaged in the business or in supervision were reported, combined with clerks and other officials. In cases where proprietors and firm members were reported without salaries, the amount that would ordinarily be paid for similar services was estimated. At the census of 1900 only the number of proprietors and firm members actively engaged in the industry or in supervision was ascertained, and no salaries were reported for this class. It is therefore impossible to compare the number and salaries of salaried officials of any character for the two censuses.

Furthermore, the schedules for 1890 included in the wage-earning class, overseers, foremen, and superintendents (not general superintendents or managers), while the census of 1900 separates from the wage-earning class such salaried employees as general superintendents, clerks, and salesmen. It is possible and probable that this change in the form of the question has resulted in eliminating from the wage-earners, as reported by the present census, many high-salaried employees included in that group for the census of 1890.

In some instances, the number of proprietors and firm members, shown in the accompanying tables, falls short of the number of establishments reported. This is accounted for by the fact that no proprietors or firm members are reported for corporations or cooperative establishments. The number of salaried officials, clerks, etc., is the greatest number reported employed at any one time during the year, and this number may appear excessive as compared with the amount of salaries paid. The seeming inconsistency is due to the large number of establishments reporting clerks em-

ployed but a short period, who received salaries that would be small if reckoned as for the entire year.

The reports show a capital of \$35,960,640 invested in manufactures and mechanical industries in the 4,794 establishments reporting for the state of Arkansas. This sum represents the value of land, buildings, machinery, tools, and implements, and the live capital utilized, but does not include the capital stock of any of the manufacturing corporations of the state of Arkansas. The value of the products is returned at \$44,883,783, to produce which involved an outlay of \$1,251,096 for salaries of officials, clerks, etc., \$8,686,291 for wages, \$1,482,779 for miscellaneous expenses, including rent, taxes, etc., and \$23,963,768 for materials used, mill supplies, freight, and fuel. It is not to be assumed, however, that the difference between the aggregate of these sums and the value of the products is, in any sense, indicative of the profits in the manufacture of the products during the census year. The census schedule takes no cognizance of the cost of selling manufactured articles, or of interest on capital invested, or of the mercantile losses incurred in the business, or of depreciation in plant. The value of the products given is the value as obtained or fixed at the shop or factory. This statement is necessary in order to avoid erroneous conclusions from the figures presented.

The value of products for the state of Arkansas, \$44,883,783, is the gross value, and not the net or true value. The difference between these two should be carefully noted. The gross value is found by adding the values of products in the separate establishments. But the finished product of one establishment is often the raw material for another. In such cases the value of the former reappears in the latter, and thus the original cost of certain materials may be included several times in the gross value. The net or true value is found by subtracting from the gross value the value of all materials purchased in a partly manufactured form. In this way the duplications in the gross value are eliminated.

At the census of 1890 the schedule was so framed that it was impossible to find the net or true value. In the present census the schedule asked for the value of the materials in two classes, those purchased in the crude state and those purchased in the partly manufactured form. From the answers to these questions the net or true value of products may be computed. Thus, for Arkansas, the gross value of products for 1900 was \$44,883,783. The value of materials purchased in a partly manufactured form was \$16,402,084. The difference, \$28,481,699, is the net or true value of products, and represents the increase in the value of raw materials resulting from the various processes of manufacture.

Very respectfully,


Chief Statistician for Manufactures.

ARKANSAS.

Table 1 shows the manufacturing and mechanical industries of the state of Arkansas as returned at the censuses of 1850 to 1900, inclusive, with the percentages of increase for each decade. This table also presents the average number of wage-earners employed by manufacturing estab-

lishments, in comparison with the total population of the state, and the value of the land and buildings owned and reported by manufacturers as capital, in comparison with the assessed value of all real estate and improvements.

TABLE 1.—COMPARATIVE SUMMARY, 1850 TO 1900, WITH PER CENT OF INCREASE FOR EACH DECADE.

	DATE OF CENSUS.						PER CENT OF INCREASE.				
	1900	1890	1880	1870	1860	1850	1890 to 1900	1880 to 1890	1870 to 1880	1860 to 1870	1850 to 1860
Number of establishments	4,794	2,078	1,202	1,070	618	261	181.8	72.5	11.4	108.8	98.5
Capital	\$95,960,640	\$14,971,614	\$2,958,180	\$1,782,913	\$1,316,610	\$305,015	140.2	407.0	65.6	35.4	331.7
Salaried officials, clerks, etc., number	1,649	1,829	(2)	(2)	(2)	(2)	99.8				
Salaries	\$1,251,096	\$1,100,702	(2)	(2)	(2)	(2)	18.7				
Wage-earners, average number	26,501	14,148	4,557	3,206	1,877	842	87.4	210.4	42.1	70.8	122.9
Total wages	\$8,686,291	\$4,649,186	\$925,858	\$673,968	\$554,240	\$159,876	86.8	402.4	37.8	21.6	246.7
Men, 16 years and over	25,158	18,277	4,807	3,077	1,881	812	89.5	208.3	40.0	68.1	125.5
Wages	\$8,424,011	\$4,515,560	(2)	(2)	(2)	(2)	86.6				
Women, 16 years and over	700	468	90	47	46	80	51.2	414.4	91.5	2.2	58.8
Wages	\$159,820	\$92,388	(2)	(2)	(2)	(2)	73.0				
Children, under 16 years	648	403	160	82	(2)	(2)	59.6	151.9	95.1		
Wages	\$102,460	\$41,248	(2)	(2)	(2)	(2)	148.4				
Miscellaneous expenses	\$1,482,779	\$1,035,107	(4)	(4)	(4)	(4)	48.2				
Cost of materials used	\$23,963,768	\$12,397,261	\$4,392,080	\$2,586,998	\$1,280,508	\$215,789	98.3	182.3	78.1	98.1	493.4
Value of products, including custom work and repairing	\$44,888,788	\$22,659,179	\$6,756,159	\$4,629,234	\$2,880,578	\$587,908	98.1	235.4	45.9	60.7	485.6
Total population	1,811,564	1,128,179	802,525	484,471	435,450	209,897	16.3	40.6	65.6	11.3	107.5
Wage-earners engaged in manufactures	26,501	14,148	4,557	3,206	1,877	842	87.4	210.4	42.1	70.8	122.9
Per cent of total population	2.0	1.3	0.6	0.7	0.4	0.4					
Assessed value of real estate	\$128,084,667	\$109,417,158	\$55,760,888	\$68,102,304	\$63,254,740	\$17,372,524	17.1	95.2	111.6	40.2	254.1
Value of land and buildings invested in manufactures ^a	\$11,845,887	\$4,490,567	(2)	(2)	(2)	(2)	163.8				
Per cent of assessed value	9.2	4.1									

- ¹ Includes proprietors and firm members, with their salaries; number only reported in 1900. (See Table 7.)
² Not reported separately.
³ Decrease.
⁴ Not reported.
⁵ As given in letter of T. C. Monroe, State Auditor of Arkansas, August 19, 1901.
⁶ Does not include value of rented property.

Although Arkansas is an agricultural state, Table 1 shows that there has been a steady growth in the manufacturing and mechanical industries during the half century. The population during these years increased from 209,897 to 1,811,564, or 524.9 per cent, but the average number of wage-earners employed in manufacturing establishments increased from 842 to 26,501, or 3,047.4 per cent, embracing, in 1900, 2 per cent of the entire population, compared with four-tenths of 1 per cent in 1850. Probably the best indication of the importance of the wage-earning class is

afforded by the greatest number employed at any one time during the year. In 1900 this was 42,052, or 3.2 per cent of the total population of the state.

Table 2 divides the industries of the state between the hand trades and the manufactures proper. This table also gives the statistics for an eleemosynary institution and establishments with a product of less than \$500; these were not reported at previous censuses, and therefore are omitted from the other tables and their use confined to Table 2.

TABLE 2.—SUMMARY FOR ALL ESTABLISHMENTS.

CLASSES.	Number of establishments.	Capital.	Proprietors and firm members.	WAGE-EARNERS.		Miscellaneous expenses.	COST OF MATERIALS USED.				Value of products, including custom work and repairing.
				Average number.	Total wages.		Total.	Purchased in raw state.	Purchased in partially manufactured form.	Fuel, freight, etc.	
Total	8,384	\$37,169,799	9,757	29,178	\$8,744,271	\$1,513,692	\$24,165,167	\$6,731,163	\$16,583,485	\$850,519	\$45,578,578
Hand trades ¹	1,061	1,013,808	1,255	1,302	545,675	157,559	1,014,272	41,215	918,125	54,932	2,675,443
Eleemosynary institution	1	1,875					162	80	82		830
Establishments with a product of less than \$500	3,589	1,207,284	4,006	2,672	57,980	30,913	201,237	19,918	181,319		689,465
All other establishments	3,733	\$4,947,832	4,496	25,199	8,140,616	1,325,220	22,949,496	6,669,950	15,483,959	795,587	42,208,340

¹ Includes bicycle and tricycle repairing, 12; blacksmithing and wheelwrighting, 538; boots and shoes, custom work and repairing, 80; carpentering, 59; clothing, men's, custom work and repairing, 64; clothing, women's, dressmaking, 16; dyeing and cleaning, 11; furniture, cabinetmaking, repairing, and upholstering, 25; lock and gun smithing, 15; masonry, brick and stone, 3; millinery, custom work, 116; painting, house, sign, etc., 21; paper hanging, 1; plastering and stuccowork, 1; plumbing, and gas and steam fitting, 22; sewing machine repairing, 6; watch, clock, and jewelry repairing, 76.

Of the 8,384 establishments of all classes shown in this table, 4,650, or 55.5 per cent, were small shops included in the groups of "hand trades" and "establishments with a product of less than \$500." The value of the products for these establishments, consisting principally of the sums received for custom work and repairing, amounted to

\$3,364,908, or only 7.4 per cent of the total products of the state.

In addition to the 8,384 active establishments in the state during the census year, with a capital of \$87,169,799, shown in Table 2, there were 106 idle establishments, with a capital of \$601,048, divided as follows:

INDUSTRIES.	Number of idle establishments.	Capital.	INDUSTRIES.	Number of idle establishments.	Capital.
Brick and tile.....	10	\$20,065	Lumber, planing mill products, including sash, doors, and blinds.....	1	\$3,200
Cotton, ginning.....	33	34,176	Marble and stone work.....	1	5,820
Furniture, cabinetmaking, repairing, and upholstering.....	1	7,013	Woolen goods.....	2	5,140
Liquors, distilled.....	4	13,460	All other.....	18	4,141
Lumber and timber products.....	31	508,033			

TABLE 3.—COMPARATIVE SUMMARY OF SEVEN LEADING INDUSTRIES.

INDUSTRIES.	Year.	Number of establishments.	Capital.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Average number.	Total Wages.			
Total for selected industries for state.....	1900 1890	3,067 1,250	\$29,817,055 11,320,834	21,717 10,384	\$6,990,732 3,291,392	\$939,133 686,892	\$20,832,017 10,305,545	\$37,006,409 17,275,192
Increase, 1890 to 1900.....		1,817	18,496,221	11,333	3,699,340	252,241	10,526,472	19,731,217
Per cent of increase.....		145.4	163.4	109.1	112.4	36.7	102.1	114.2
Per cent of total of all industries in state.....	1900 1890	64.0 60.3	82.9 75.6	81.9 78.4	80.5 70.8	63.3 66.4	86.9 83.1	82.4 76.2
Cars and general shop construction and repairs by steam railroad companies.....	1900 1890	21 8	720,907 355,747	1,927 847	1,203,761 583,187	27,124	765,003 715,340	2,095,447 1,299,558
Cotton, ginning ¹	1900 1890	1,150 137	1,338,698 221,620	1,103 569	146,041 60,683	43,740 12,677	342,125 30,725	1,261,097 153,226
Flouring and grist mill products.....	1900 1890	410 376	1,183,052 975,616	443 742	116,445 107,439	44,681 58,898	3,029,236 2,041,587	3,708,709 2,498,168
Lumber and timber products.....	1900 1890	1,199 639	21,727,710 6,928,720	15,895 6,563	4,730,413 1,894,395	522,653 292,541	13,068,267 4,798,577	23,959,983 8,943,052
Lumber, planing mill products, including sash, doors, and blinds.....	1900 1890	50 38	1,213,011 850,092	1,032 640	345,806 279,662	60,778 45,209	1,459,636 1,219,151	2,266,522 1,761,932
Oil, cottonseed and cake.....	1900 1890	20 3	2,484,794 1,488,690	667 511	232,356 153,651	160,896 160,148	1,995,771 1,319,039	2,874,864 1,881,603
Printing and publishing, newspapers and periodicals.....	1900 1890	217 144	643,883 500,349	600 512	215,410 237,420	79,261 122,419	171,979 181,126	839,787 737,538

¹ Does not include many ginneries operated in connection with saw, grist, and cottonseed oil mills or for the use exclusively of plantations on which they are located. For the full number of ginneries in operation reference should be made to the special report on Cotton Ginning.

The 7 leading industries of the state in 1900, as shown in Table 3, embrace 3,067 establishments, or 64 per cent of the total number; \$29,817,055, or 82.9 per cent of the capital; 21,717, or 81.9 per cent of the total average number of wage-earners; \$6,990,732, or 80.5 per cent of the total wages; and \$37,006,409, or 82.4 per cent of the total products. In the discussion of Table 3, which follows, these industries are ranked with reference to the value of the products.

Table 3 shows that the manufacture of lumber and timber products is by far the most important in Arkansas. The 1,199 establishments reported for this industry in 1900, with a capital of \$21,727,710, gave employment to 15,895 wage-earners, or 60 per cent of the wage-earners of the entire state. The value of the products was \$23,959,983, or 53.4 per cent of the value of all the products of the state, compared with \$8,943,052 in 1890, an increase of \$15,016,931, or 167.9 per cent. The importance of this industry is due in great part to extensive forests, estimated, in 1898, to cover 25,600,000 acres, or more than

three-fourths of the total area of the state.¹ "Hard woods prevail north of the Arkansas River, cypress swamps cover a great part of the eastern alluvial districts, and in the south there are extensive districts covered with pine."² "The hard-wood forests of the state are hardly surpassed in variety and richness, and contain inestimable bodies of the finest oak, walnut, hickory, and ash timber."³

Related to the lumber and timber industry is the manufacture of planing-mill products, including sash, doors, and blinds, in which 50 establishments were reported having a capital of \$1,213,011, 1,032 wage-earners, and products valued at \$2,266,522. The development is shown in a comparison with the statistics of 1890 when 38 establishments were reported, with a capital of \$850,092, wage-earners numbering 640, and products valued at \$1,761,932.

The flour and grist milling industry ranked second in

¹ Report of the Arkansas Bureau of Mines, Manufactures, and Agriculture, 1897-1898, page 122.

² Arkansas, by O. W. Greene, page 5.

³ Tenth Census, The Forests of the United States, page 544.

importance. The 410 establishments reported had a capital of \$1,188,052, employed 448 wage-earners, and had products valued at \$3,708,709. In 1890, 376 establishments were reported, with a capital of \$975,616, wage-earners numbering 742, and products valued at \$2,498,168.

The manufacture of cottonseed oil and cake ranked third with 20 establishments, having a capital of \$2,484,794; 667 wage-earners; and products valued at \$2,874,864. Material previously thrown away or burned is used in this industry, which dates back to 1834, when the first mill in the country is said to have been established at Natchez, Miss.¹ It is only since the civil war that the manufacture has been extensively developed. In addition to oil, these mills produce cottonseed cake and meal, which are used largely as a fertilizer and, to some extent, also, as food for cattle. The industry was reported in Arkansas first at the census of 1870, when there was but 1 establishment in the state. In 1880 there were 4, and in 1890, 8 establishments. During the decade from 1890 to 1900 the increase in value of products was \$993,196, or 52.8 per cent. Allied to the manufacture of cottonseed oil and cake is the ginning of cotton. The number of establishments increased from 137 in 1890 to 1,150 in 1900, or 739.4 per cent. The total amount received for ginning, and other work done, increased from \$153,226 in 1890 to \$1,261,097 in 1900, or 723 per cent. These figures do not include the operations of many private plantation gineries, or gineries connected with saw, grist, and cottonseed oil mills. For the full number of gineries in operation reference should be made to the special report on Cotton Ginning.² Both cotton ginning and cottonseed oil and cake manufacture are dependent upon the large cotton production of the state, amounting in 1899 to 719,453 commercial bales, or 7.5 per cent of the total production of the country.³

The construction and repair shops of steam railroad companies ranked fifth in importance, numbering 21, with a capital of \$720,907, 1,927 wage-earners, and products valued at \$2,095,447. In 1890 there were 8 establishments having a capital of \$355,747; wage-earners numbering 847; and products valued at \$1,299,558.

In the printing and publishing of newspapers and

¹ Cotton and Cotton Oil, by D. A. Tompkins, page 210 et passim.

² Census Bulletin, No. 58, Cotton Ginning, page 5.

³ Ibid., page 6.

periodicals, there were 217 establishments with a capital of \$648,883; 600 wage-earners; and products valued at \$839,787. In 1890 there were 144 establishments reported, having a capital of \$500,349; wage-earners numbering 512; and products valued at \$737,588.

URBAN MANUFACTURES.

Table 4 shows the totals for the manufacturing and mechanical industries of the city of Little Rock, as returned at the censuses of 1890 and 1900, with percentages of increase.

TABLE 4.—COMPARATIVE SUMMARY, LITTLE ROCK, 1890 AND 1900, WITH PER CENT OF INCREASE.

	DATE OF CENSUS.		Per cent of increase, 1890 to 1900.
	1900	1890	
Number of establishments	171	124	37.9
Capital	\$3,434,398	\$2,265,324	51.6
Wage-earners, average number	2,751	1,333	106.4
Total wages	\$1,384,722	\$635,352	117.9
Miscellaneous expenses	\$295,156	\$254,227	16.1
Cost of materials used	\$1,990,081	\$1,396,773	42.5
Value of products, including custom work and repairing	\$4,644,232	\$3,120,677	48.8

It appears from Table 4 that there has been a considerable increase during the past decade in the manufactures of the city. The number of establishments increased from 124 to 171, or 37.9 per cent; the average number of wage-earners from 1,333 to 2,751, or 106.4 per cent; and the value of products from \$3,120,677 to \$4,644,232, or 48.8 per cent. The 171 establishments in Little Rock in 1900, were 3.6 per cent of the entire number located within the state. These establishments had a combined capital amounting to \$3,434,398, or 9.6 per cent of all the capital employed in the state. Of the wage-earners, 2,751, or 10.4 per cent of all in the state, were employed in Little Rock. The total amount of wages paid in the city was \$1,384,722, or 15.9 per cent of all wages paid in the state. The value of products, including custom work and repairing, during 1900 was \$4,644,232, or 10.3 per cent of the total products of the state.

Table 5 presents the totals for the manufacturing industries of Fort Smith, Helena, Little Rock, Pine Bluff, and Van Buren, and places them in comparison with the totals for the entire state, and the state exclusive of these cities.

TABLE 5.—URBAN MANUFACTURES.

	Number of establishments.	Capital.	Proprietors and firm members.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Average number.	Total wages.			
Total for state	4,794	\$35,960,640	5,761	26,501	\$8,686,291	\$1,482,779	\$23,963,768	\$44,883,733
Total for urban manufactures	530	7,682,048	541	5,291	2,441,611	568,448	4,247,459	9,381,521
Fort Smith	194	1,131,924	206	1,012	394,363	123,891	890,191	2,087,044
Helena	43	568,146	43	272	108,702	44,893	437,047	706,076
Little Rock	171	3,434,398	174	2,751	1,384,722	295,156	1,990,081	4,644,232
Pine Bluff	91	2,470,025	87	1,111	488,546	97,445	873,921	1,766,590
Van Buren	31	82,560	31	145	65,278	7,063	56,219	177,579
Total for state, exclusive of urban manufactures	4,264	28,278,592	5,210	21,210	6,244,680	914,331	19,716,309	35,502,262
Per cent of urban manufactures to total for state	11.1	21.4	9.4	20.0	28.1	38.3	17.7	20.9

Of the 4,794 establishments of the state, 530, or 11.1 per cent, are located in these 5 cities. The capital reported for these establishments is \$7,682,048, or 21.4 per cent of that for the entire state. They furnished employment to

5,291 wage-earners, or 20 per cent of the total number; paid \$2,441,611 in wages, or 28.1 per cent of the total amount; and the value of their products, \$9,381,521, formed 20.9 per cent of the total for the state.

TABLE G.—MANUFACTURES

COUNTIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and imple-ments.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
The State	4,794	\$35,960,640	\$8,164,629	\$3,681,258	\$12,444,494	\$11,670,259	5,751	1,649	\$1,251,096	26,501	\$3,636,291
Arkansas	44	169,082	89,640	16,555	49,170	63,717	60	2	2,720	86	23,458
Ashley	58	284,127	35,959	84,155	117,905	46,108	63	19	4,884	212	47,715
Baxter	25	48,913	6,297	7,000	23,751	12,865	89			25	4,569
Benton	176	378,532	37,702	62,972	161,774	116,084	227	13	5,513	283	62,825
Boone	50	102,485	10,147	21,896	43,203	27,739	61			69	15,177
Bradley	38	230,892	11,886	19,704	76,735	122,617	50	18	8,978	246	78,402
Calhoun	13	588,788	98,130	53,384	217,528	169,741	12	15	15,660	526	130,279
Carroll	82	147,020	24,940	22,840	61,702	37,538	104	4	2,885	119	33,218
Chicot	46	160,969	16,272	18,785	87,202	38,710	50	16	2,431	180	58,182
Clark	53	685,936	196,528	55,520	204,292	179,596	68	12	13,800	646	175,439
Clay	68	427,720	98,358	28,966	152,820	147,576	75	23	17,270	409	125,187
Cleburne	35	68,406	14,897	10,220	36,415	6,874	46	2	840	59	9,863
Cleveland	34	739,638	195,491	26,040	837,941	180,166	38	18	14,520	652	168,323
Columbia	70	297,811	9,694	17,857	75,862	193,928	86	12	6,563	220	64,657
Conway	60	123,638	19,538	16,345	74,355	13,400	66	12	1,675	107	30,528
Craighead	87	838,979	168,349	71,200	238,029	386,941	107	40	17,145	823	279,502
Crawford	69	138,824	21,455	23,140	61,072	33,157	77	11	6,029	138	78,098
Crittenden	43	399,425	135,800	29,960	148,640	84,985	64	22	13,245	514	101,957
Cross	39	228,395	105,265	14,316	75,142	93,007	52			198	59,120
Dallas	42	912,885	308,419	83,896	108,115	311,955	50	22	16,160	388	124,882
Desha	48	710,246	461,019	32,527	64,044	152,656	51	13	6,176	184	43,850
Drew	65	640,799	198,269	62,467	176,523	203,600	90	25	17,872	418	133,054
Faulkner	74	139,182	6,395	20,625	80,205	23,957	95	8	2,567	120	31,219
Franklin	48	71,815	4,892	12,969	38,620	15,343	63			63	14,427
Fulton	40	224,151	8,331	23,600	155,255	36,956	52	7	6,325	103	27,218
Garland	113	489,222	47,583	85,698	218,484	137,557	119	33	17,874	385	126,850
Grant	15	23,090	2,445	2,680	15,900	2,765	20	2	980	82	7,516
Greene	64	512,421	67,842	26,665	148,377	269,527	75	26	19,428	438	133,958
Hempstead	86	500,857	93,619	81,955	190,218	180,065	104	20	18,396	411	122,811
Hot Spring	52	702,389	138,865	90,469	249,746	223,309	55	47	42,710	796	178,823
Howard	45	709,375	8,060	11,825	52,895	36,595	57	6	2,593	96	20,674
Independence	91	169,244	20,353	28,670	78,628	41,583	111	8	5,670	181	58,261
Izard	43	86,003	12,800	9,065	43,870	15,788	63	1	800	53	6,764
Jackson	70	384,431	106,148	55,891	171,977	50,415	81	19	12,367	250	76,431
Jefferson	190	2,988,839	858,532	395,562	915,866	828,879	196	131	103,783	1,646	610,093
Johnson	59	109,508	14,101	13,125	54,045	28,237	78	2	950	85	24,970
Lafayette	25	1,512,437	704,808	138,418	237,307	381,904	22	31	37,700	617	264,682
Lawrence	54	547,472	175,871	31,302	163,161	177,133	74	22	17,174	391	105,797
Lee	66	440,416	75,247	42,592	143,157	179,420	84	18	13,648	268	74,855
Lincoln	44	86,781	10,425	13,245	44,072	19,039	61			75	11,742
Little River	41	326,458	53,088	30,540	117,909	124,921	42	24	18,001	312	103,360
Logan	89	173,920	18,145	21,324	88,336	46,115	111	3	701	159	33,356
Lonoke	86	234,650	65,740	30,660	102,420	35,730	92	12	4,474	162	47,240
Madison	61	153,221	32,767	9,815	70,574	40,065	84	7	3,516	132	43,995
Marion	29	91,985	35,485	33,020	14,425		39			39	10,305
Miller	76	640,021	90,099	92,975	307,956	157,991	82	39	32,139	556	198,878
Mississippi	69	1,076,249	247,782	72,336	278,380	477,751	87	26	19,897	476	119,591
Monroe	61	636,774	57,222	108,891	282,985	187,676	56	38	29,600	554	163,334
Montgomery	26	37,778	5,233	6,525	23,130	2,885	33			26	3,701
Nevada	45	144,659	29,254	12,255	58,120	45,030	55	10	9,150	230	62,216
Newton	21	16,715	3,445	2,055	7,945	3,270	23	1	350	15	2,209
Ouachita	63	2,053,553	654,655	108,892	655,470	644,536	64	80	67,418	1,216	498,618
Perry	41	87,523	12,590	8,375	47,685	18,373	56	4	1,160	121	31,274
Phillips	115	1,464,815	142,698	159,894	438,365	673,858	111	70	66,720	1,061	324,018
Pike	32	319,651	174,310	8,720	67,204	69,317	41	15	16,600	256	68,696
Poinsett	21	535,526	136,099	53,700	115,062	230,665	22	17	16,400	324	131,151
Polk	70	362,105	28,356	24,112	124,244	185,393	92	47	24,214	512	142,975
Pope	72	178,284	27,850	20,080	85,410	44,894	97	1	120	112	24,020
Prairie	47	197,831	49,831	14,225	67,745	66,030	49	15	6,803	134	50,544
Pulaski	249	4,168,260	373,952	573,981	1,636,273	1,579,944	259	331	282,709	3,504	1,700,394
Randolph	39	147,020	26,500	11,645	41,655	67,220	46	6	4,720	181	42,345
St. Francis	47	246,979	16,676	71,601	118,821	39,881	65	11	7,458	186	49,271
Saline	58	423,133	117,393	24,405	213,015	70,320	67	17	10,537	293	76,711
Scott	47	261,271	71,227	33,145	60,731	96,168	74	10	4,760	230	54,338
Searcy	19	28,765	1,745	17,355		5,855	23			26	4,867
Sebastian	250	1,188,826	126,074	246,085	433,370	333,287	278	74	72,894	1,081	408,310
Sevier	68	754,176	244,115	27,064	248,373	234,024	89	17	9,510	513	143,049
Sharp	44	61,473	11,895	10,765	28,310	10,503	57			41	7,941
Stoue	17	16,985	2,300	8,975	1,645		23	1	175	12	1,784
Union	58	1,057,985	273,525	57,868	359,627	366,965	54	39	43,650	667	192,021

Table 6 shows the totals for the state by counties.

Table 7 shows the totals for the state by specified industries.

Table 8 shows the totals for the city of Little Rock by specified industries.

Table 9 shows the totals for all industries in the cities withdrawn from the enumerators, exclusive of Little Rock, shown in Table 8.

BY COUNTIES: 1900.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
25,168	\$8,424,011	700	\$159,820	648	\$102,460	\$1,482,779	\$189,298	\$222,922	\$1,002,164	\$68,400	\$23,063,768	\$23,579,328	\$384,440	\$44,883,788	1
81	22,558	5	900			4,160	1,125	879	2,126	30	72,722	70,765	1,967	148,123	2
207	46,915	4	600	1	200	9,264	940	1,414	4,910	2,000	180,012	127,411	2,601	263,861	3
543	4,205	2	250	1	104	2,354	344	291	1,619	100	35,647	34,111	1,436	63,645	4
214	58,511	58	8,241	11	1,073	44,122	4,404	1,915	86,465	1,338	550,694	594,744	15,850	872,251	5
610	14,437	6	540	8	2,878	6,438	962	759	4,172	545	140,491	186,176	4,815	216,399	6
231	71,219	3	493	12	1,690	11,678	2,311	1,220	3,142		198,850	197,946	904	448,839	7
526	180,279					14,805	75	2,641	11,689		433,723	433,339	384	685,815	8
106	81,812	4	590	9	816	10,679	1,679	1,254	9,188	150	195,277	192,331	2,946	332,138	9
179	58,182			1	50	3,116	470	913	1,733		100,914	98,721	2,193	270,051	10
607	168,667	18	3,899	21	2,878	14,258	272	8,547	10,439		463,449	460,751	2,698	677,455	11
332	119,342			27	5,845	10,618	698	3,494	6,526		318,698	311,341	2,357	660,962	12
56	9,528	3	335	3	335	2,425	165	582	1,728		54,734	53,214	1,520	108,875	13
543	156,908	9	1,415	9	1,415	13,278	866	4,313	8,099		373,064	372,696	368	683,406	14
216	53,910	4	747	4	747	12,016	650	2,066	9,291		169,504	166,645	2,859	303,731	15
105	30,078	1	250	1	200	8,493	3,917	801	675	3,200	55,559	63,358	2,176	153,382	16
747	265,305	25	6,652	56	7,545	27,085	3,751	5,086	18,248		658,652	654,275	4,377	1,197,581	17
178	69,747	5	1,560	10	1,786	8,138	3,859	779	4,000		84,616	80,296	4,320	239,510	18
314	101,857					12,514	1,117	1,882	9,615		262,616	261,142	1,474	522,058	19
195	58,675	2	320	1	125	7,209	959	1,995	4,255		140,934	140,073	861	267,238	20
382	123,628	5	1,119	1	140	24,934	1,009	3,558	20,367		367,077	366,509	508	723,589	21
126	42,857	2	500	6	493	3,108	1,117	2,905	4,086		93,417	91,596	1,821	194,391	22
408	180,774	1	150	14	2,120	12,793	881	2,673	9,179	60	309,364	307,400	2,464	570,237	23
114	29,984	4	925	2	810	6,465	1,049	1,107	4,239		162,629	158,874	3,755	267,308	24
63	14,427					1,619	459	545	615		61,138	59,627	1,511	123,264	25
71	14,224	53	10,039	34	2,955	6,738	1,933	932	2,873		155,412	152,454	2,958	248,788	26
319	123,423	12	2,975	4	452	26,911	15,255	3,226	8,430		237,464	229,284	8,180	561,270	27
31	7,441	1	75	1	75	290	30	179	81		19,745	19,458	290	40,023	28
393	125,556	5	1,000	40	6,502	16,474	1,996	2,265	11,086	630	463,890	460,821	3,069	810,105	29
400	119,081	8	1,892	6	1,838	14,268	1,099	3,700	9,469		383,572	380,604	2,968	703,035	30
731	178,011	6	1,570	9	1,242	26,901	4,082	4,510	17,975	384	664,157	654,376	9,281	1,142,823	31
85	19,431	8	971	3	272	4,307	22	785	3,499		70,904	68,325	2,579	243,201	32
174	51,271	5	1,330	2	160	9,191	2,023	1,421	2,041	3,701	144,994	140,316	4,073	254,387	33
51	6,544				220	1,950	157	575	1,218		64,238	62,949	1,281	109,255	34
249	76,251	1	180			19,533	3,315	2,827	11,707	1,734	204,137	194,333	9,799	403,331	35
1,597	599,243	33	8,954	11	1,896	109,774	11,266	11,317	86,731	410	1,150,115	1,118,267	31,848	2,407,820	36
79	24,230	1	240	5	450	2,699	679	729	1,201		80,697	78,352	2,344	156,925	37
610	263,687			7	975	32,767	9,191	5,057	27,551		934,440	933,493	942	1,438,410	38
875	102,084	1	150	15	3,563	44,289	1,378	21,535	23,331	25	286,716	283,738	2,978	563,216	39
265	73,855	3	1,000			6,467	1,082	1,484	3,899	2	194,931	191,324	3,607	415,456	40
75	11,742					1,765	65	609	1,091		21,793	20,419	1,374	63,609	41
311	103,160			1	200	10,860	217	1,797	8,786	60	304,809	303,776	1,033	485,120	42
152	37,456	3	450	4	350	5,089	874	1,650	2,250	415	164,464	161,671	2,793	254,850	43
159	46,520	1	474	2	246	6,835	1,107	1,671	3,957	100	81,051	77,886	3,215	229,032	44
179	43,390			3	605	3,337	859	774	2,154	50	174,252	172,584	1,668	331,600	45
37	9,906			2	399	1,487	340	754	393		83,125	81,625	1,500	123,932	46
502	186,051	38	10,302	16	2,520	40,459	6,421	5,482	28,556		634,327	621,615	12,712	1,055,295	47
470	118,423	6	1,168			19,635	1,157	7,947	10,531		338,421	378,908	4,513	857,406	48
539	160,594	8	1,370	7	870	27,221	1,799	2,323	22,599		399,897	394,196	5,701	725,066	49
24	3,551			2	150	1,699	278	278	1,421		22,499	22,044	455	38,026	50
223	60,746	5	1,280	2	240	10,401	578	2,294	7,854	175	90,131	88,940	1,191	213,382	51
14	2,059			1	150	3,021	352	171	2,498		19,259	19,040	219	37,125	52
1,194	434,539			22	4,029	62,740	1,283	12,774	48,111	572	1,482,643	1,478,732	3,911	2,511,180	53
120	31,199			1	75	1,743	350	469	924		67,761	66,614	1,147	142,104	54
1,014	311,274	18	8,630	29	4,114	31,520	7,318	8,583	56,189	9,430	921,108	903,671	17,437	1,673,012	55
256	63,696					4,062	1,552	1,170	1,340		242,855	242,419	436	387,565	56
320	129,827			4	1,324	6,866	66	2,964	3,836		260,331	259,624	707	519,711	57
502	140,694			10	2,281	9,727	1,100	2,477	6,150		591,916	590,971	945	868,875	58
105	23,360	6	610	1	50	4,741	1,004	1,028	2,709		95,020	91,752	3,268	188,848	59
182	50,318			2	226	3,445	339	1,022	2,084		99,635	98,538	1,102	224,408	60
3,260	1,053,652	194	41,750	50	4,992	319,909	47,820	23,293	233,606	10,130	2,886,754	2,787,255	99,499	6,055,628	61
129	42,158			2	192	2,843	402	656	1,775	10	115,999	114,641	1,358	207,114	62
182	48,571	1	200	3	500	16,958	250	1,683	15,025		237,227	230,330	6,897	399,874	63
239	75,026	2	425	2	260	3,888	326	2,290	1,272		802,827	300,195	2,032	633,013	64
222	53,743			8	595	4,115	170	872	3,073		305,945	305,329	1,116	447,205	65
25	4,667			1	200	3,553	161	188	3,204		35,122	33,912	1,210	59,477	66
925	360,908	84	25,989	72	21,468	126,337	26,659	7,493	62,985	29,200	950,835	926,465	24,370	2,203,674	67
503	141,283			10	1,766	16,596	301	6,626	9,644	25	515,120	513,526	1,594	940,430	68
37	7,376			4	565	2,940	400	573	1,967		87,256	86,550	706	134,829	69
11	1,634			1	150	360	98	158	104		24,321	24,321	523	36,141	70
556	189,970	3	945	8	1,106	30,094	349	5,312	23,4						

TABLE 6.—MANUFACTURES

COUNTIES AND MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
72 Van Buren	28	\$85,367	\$4,746	\$5,387	\$17,462	\$7,772	37	1	\$75	80	\$4,332
73 Washington	182	519,433	48,590	64,097	140,391	271,355	176	20	14,127	396	93,473
74 White	89	332,501	99,820	26,210	94,685	111,786	111	10	4,890	278	63,009
75 Woodruff	46	280,318	119,185	21,340	85,011	46,782	55	7	3,232	148	40,218
76 Yell	113	438,022	133,815	32,440	180,877	111,390	152	18	9,445	395	102,716

TABLE 7.—MANUFACTURES BY

1 All industries	4,794	\$35,960,640	\$8,164,629	\$3,631,258	\$12,444,494	\$11,670,259	5,751	1,649	\$1,251,096	26,501	\$3,636,291		
2 Bicycle and tricycle repairing	12	9,865	850	1,050	4,315	4,150	17			10	3,850		
3 Blacksmithing and wheelwrighting	533	300,144	42,445	49,164	81,354	127,181	654	3	1,344	266	88,379		
4 Bluing	4	10,025	3,500	4,000	680	1,845	5			10	3,650		
5 Boots and shoes, custom work and repairing	80	19,960	2,365	1,835	7,037	8,723	81	1	200	31	13,021		
6 Bread and other bakery products	23	73,822	16,800	19,250	19,365	18,407	25	4	2,000	61	24,108		
7 Brick and tile	55	810,295	77,585	98,280	65,069	69,361	66	23	17,721	402	100,252		
8 Brooms and brushes	15	12,265	1,365	2,275	1,975	6,650	18			34	11,481		
9 Carpentering	59	81,684	13,245	20,825	10,900	36,714	66			169	72,562		
10 Carriage and wagon materials	14	239,508	5,415	19,663	52,385	102,045	16	25	18,661	214	62,614		
11 Carriages and wagons	40	176,820	17,827	29,957	35,518	93,518	58	5	2,300	150	54,718		
12 Cars and general shop construction and repairs by steam railroad companies	21	720,907	50,950	114,780	209,697	345,480		103	97,935	1,927	1,208,761		
13 Cheese, butter, and condensed milk, factory product	8	26,503	885	6,229	16,021	3,363	5	3	1,446	6	1,784		
14 Clothing, men's, custom work and repairing	64	115,509	10,270	9,050	11,788	84,403	71	13	12,095	201	111,651		
15 Clothing, women's, dressmaking	16	25,310	1,500	2,600	11,940	9,270	20	3	2,300	36	13,630		
16 Confectionery	5	97,350	5,000	15,000	14,800	62,550	5	18	9,690	68	17,698		
17 Coopers	10	150,985	1,850	8,374	18,563	122,193	11	8	4,646	126	85,423		
18 Cotton, compressing	6	284,457	35,025	77,348	159,000	13,094	18	18	16,450	153	47,361		
19 Cotton, ginning	1,150	1,838,698	47,423	304,284	1,374,618	62,373	1,836	104	8,424	1,103	146,041		
20 Druggists' preparations, not including prescriptions	4	8,020			2,520	5,500	4			9	1,989		
21 Dyeing and cleaning	11	7,290	1,500	250	2,775	2,765	11			11	4,140		
22 Fancy articles, not elsewhere specified	3	3,360	600	1,700	255	805	2	1	365	2	310		
23 Flouring and grist mill products	410	1,183,052	75,663	249,321	620,403	237,660	506	36	21,526	443	116,445		
24 Foundry and machine shop products	36	432,163	53,465	59,264	135,811	183,623	34	27	24,672	275	131,669		
25 Fruits and vegetables, canning and preserving	34	33,038	2,580	13,128	7,895	9,500	44	2	350	186	21,942		
26 Furniture, cabinetmaking, repairing, and upholstering	25	29,502	275	750	8,545	19,932	31	2	800	36	14,266		
27 Furniture, factory product	3	150,327	5,850	31,154	59,701	54,122	9	4	3,300	206	64,373		
28 Gas, illuminating and heating	7	829,285	62,000	62,575	474,462	230,243		23	16,469	31	21,539		
29 Ice, artificial	15	568,657	57,500	68,950	371,334	75,373	8	21	21,700	149	56,910		
30 Leather, tanned, curried, and finished	3	2,190	80	425	1,060	625	3			3	750		
31 Lime and cement	5	53,984	11,593	10,865	9,396	22,125	4	6	3,075	78	15,600		
32 Liquors, distilled	18	48,738	1,370	8,500	12,225	26,648	23	1	150	23	6,378		
33 Lock and gun smithing	15	7,740	200	450	5,210	1,850	16			9	3,785		
34 Lumber and timber products	1,199	21,727,710	7,060,807	1,333,333	5,983,439	7,333,631	1,665	769	609,805	15,895	4,730,413		
35 Lumber, planing mill products, including sash, doors, and blinds	50	1,213,011	83,910	108,136	288,213	727,702	67	89	66,969	1,082	345,306		
36 Marble and stone work	11	67,685	18,900	5,150	16,110	27,525	12	22	6,720	104	52,600		
37 Masonry, brick and stone	3	2,677			620	2,057	3	1	600	27	7,985		
38 Mattresses and spring beds	6	15,246			3,799	11,447	6			41	16,920		
39 Millinery, custom work	116	137,657	9,550	14,250	8,937	104,920	138	20	2,250	201	58,082		
40 Mineral and soda waters	26	106,854	5,435	9,385	48,772	48,262	30	18	11,730	201	16,384		
41 Monuments and tombstones	29	28,107	2,365	1,645	2,035	21,462	85	2	1,400	37	16,243		
42 Oil, cottonseed and cake	20	2,484,794	207,353	642,473	1,272,061	362,907	1	94	116,364	667	232,356		
43 Painting, house, sign, etc	21	55,670	6,650	5,150	5,920	37,950	26	11	5,765	102	48,376		
44 Patent medicines and compounds	7	69,500	10	10	1,575	67,975	5	5	4,325	24	10,435		
45 Paving and paving materials	4	17,305	8,000	705	5,800	2,800	5	2	2,420	67	19,914		
46 Photography	53	53,521	7,740	9,841	23,625	12,815	55	2	700	27	11,929		
47 Plumbing, and gas and steam fitting	22	123,399	4,200	5,000	11,750	107,449	27	16	12,120	143	71,773		
48 Pottery, terra cotta, and fire-clay products	10	78,024	6,488	22,588	23,958	19,995	10	4	4,920	92	27,000		
49 Printing and publishing, book and job	13	123,805			101,523	27,340	13	14	12,332	104	49,356		
50 Printing and publishing, newspapers and periodicals	217	648,833	18,510	29,343	395,638	210,337	243	50	44,905	600	215,410		
51 Roofing and roofing materials	4	8,600	2,000	2,000	1,000	3,600	5			12	7,650		
52 Saddlery and harness	66	173,432	21,410	28,735	19,270	104,017	79	5	2,770	85	40,313		
53 Sewing machine repairing	6	1,725			585	1,140	8	1	1,000	4	2,200		
54 Tinsmithing, coppersmithing, and sheet-iron working	45	123,180	34,295	24,975	23,775	40,135	59	3	2,140	99	44,931		
55 Tobacco, cigars and cigarettes	19	20,241	3,815	2,920	1,480	12,526	20	1	600	37	15,648		
56 Watch, clock, and jewelry repairing	75	87,276	7,020	8,035	24,198	48,023	84			40	26,376		
57 Wood, turned and carved	5	27,144	500	4,453	12,951	9,240	2	3	3,200	61	20,572		
58 Woolen goods	13	43,525	2,855	6,000	17,800	16,870	13	3	903	27	5,158		
59 All other industries	44	600,096	47,350	70,290	331,943	210,513	40	46	34,509	485	120,026		

¹ Does not include many gineries operated in connection with saw, grist, and cottonseed oil mills or for the use exclusively of plantations on which they are located. For the full number of gineries in operation reference should be made to the special report on Cotton Ginning.

² Embraces awnings, tents, and sails; 2; boxes, wooden packing, 2; bridges, 1; buttons, 1; carpets, rag, 1; china decorating, 1; clocks, 1; clothing, men's, factory product, 2; coffins, burial cases, and undertakers' goods, 2; cordage and twine, 1; cordials and sirups, 1; cotton goods, 2; electrical construction and

BY COUNTIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
30	\$4,832					\$719	\$77	\$256	\$386		\$23,157	\$22,550	\$607	\$46,190	72
287	85,272	31	\$6,154	18	\$2,047	27,808	3,676	3,090	19,156	\$1,886	632,019	616,158	15,861	952,781	73
253	60,198	6	989	17	1,872	11,520	724	2,946	6,405	1,445	195,732	193,327	2,405	395,021	74
144	39,168	2	700	2	350	7,007	3,925	1,305	1,002	175	91,230	92,472	1,758	214,669	75
390	102,081	1	234	4	401	8,744	768	2,402	5,566	18	279,713	275,370	4,343	546,561	76

SPECIFIED INDUSTRIES: 1900.

25,158	\$8,424,011	700	\$159,820	643	\$102,460	\$1,482,779	\$180,293	\$222,922	\$1,002,164	\$68,400	\$23,903,768	\$23,573,328	\$384,440	\$44,883,783	1
8	3,650			2	200	2,574	1,385	71	1,163		10,572	10,388	189	28,401	2
253	85,272			18	2,651	23,696	13,275	2,545	6,688	1,238	167,665	150,424	17,241	603,463	3
8	3,190			2	460	1,051	404	100	547		1,918	1,875	38	10,900	4
30	12,671			1	350	7,684	6,230	258	996	150	28,313	27,840	473	86,205	5
54	21,988	1	360	6	1,760	6,811	3,872	623	2,816		64,710	62,497	2,213	129,911	6
382	97,582			20	2,670	7,392	232	1,356	5,804		51,724	14,388	37,391	277,207	7
28	10,268	2	300	4	818	989	362	98	529		9,929	9,689	240	42,390	8
162	70,162			7	2,400	25,355	2,410	639	2,096	20,210	140,868	140,500	368	348,027	9
210	62,080			4	594	9,639	1,250	1,030	7,359		216,644	215,094	1,550	357,626	10
150	54,718					8,121	1,904	1,334	4,611	272	103,666	100,193	3,473	223,790	11
1,927	1,203,761					27,124		5,504	21,620		765,008	744,524	20,479	2,095,447	12
5	1,784					374		187	187	20	24,538	23,988	550	32,717	13
166	100,996	32	10,237	3	418	26,502	15,810	864	9,748	80	134,927	133,316	1,611	380,691	14
7	3,000	28	10,555	1	125	4,964	2,216	170	2,578		17,079	17,550	129	61,165	15
29	13,190	39	4,408			9,213	3,120	108	5,895		84,674	82,564	2,110	135,980	16
125	35,356			1	72	12,060	349	1,156	9,205	1,350	157,966	157,851	115	288,892	17
150	46,839	2	375	1	97	25,264	850	2,370	22,544		8,442	3,132	5,310	132,123	18
1,100	145,932	3	109	3	109	43,740	10,132	13,796	19,707	85	342,125	284,699	57,426	1,261,097	19
8	1,953			1	36	2,152	436	68	1,648		6,137	6,115	22	14,830	20
9	3,420	2	720			2,286	1,788	50	498		3,543	3,273	270	19,855	21
2	310					81		33	8	40	267	207	60	2,010	22
440	116,258			3	192	44,081	2,207	8,929	31,006	2,539	3,029,236	2,081,121	48,115	3,703,709	23
272	130,419			3	1,220	26,567	5,345	2,880	18,192	200	154,375	133,490	16,385	447,514	24
50	10,079	72	10,495	14	1,368	952	35	213	704		50,954	46,643	4,306	100,503	25
34	14,006			2	260	4,618	3,526	126	966		37,491	36,240	1,251	72,625	26
134	58,814	15	5,155	7	1,404	3,095	500	680	1,915		81,640	83,100	1,540	232,372	27
34	21,589					24,458		4,356	20,102		33,223	37,070	1,158	133,921	28
149	55,910					27,952	696	3,832	23,424		46,279	16,264	30,015	214,919	29
3	750					37	10	13	14		3,590	3,490	100	5,859	30
78	15,600					6,409	100	223	1,436	4,600	29,497	21,317	8,150	70,300	31
23	6,378					48,764		309	48,455		18,591	16,496	2,095	95,487	32
7	8,212	1	288	1	255	1,726	1,264	43	419		3,883	3,029	254	13,603	33
15,670	4,691,024	9	1,485	216	37,904	522,653	12,401	130,323	369,252	10,172	13,068,267	13,087,968	299	23,959,983	34
1,030	337,644	5	1,120	47	7,042	60,778	9,183	5,940	42,671	2,984	1,459,636	1,459,286	2,350	2,266,522	35
99	50,740			5	1,860	5,600	704	861	3,535	600	49,458	48,477	981	141,745	36
27	7,985					10,301	60	1	240	10,000	57,510	57,500	10	84,050	37
29	12,740	10	3,680		500	7,682	2,383	99	5,195		23,780	23,357	423	71,246	38
8	530	194	56,167	4	1,385	19,959	14,353	1,180	4,396	80	196,432	193,642	790	388,275	39
49	15,934	2	300	2	150	21,209	3,158	581	17,470		75,422	74,257	1,165	215,188	40
37	16,243					2,282	1,303	170	480	269	47,717	47,549	168	99,782	41
667	232,856					160,896		15,366	143,321	1,709	1,995,771	1,923,464	72,307	2,874,864	42
99	47,636			3	740	5,824	3,523	498	1,793		40,347	40,097	250	136,851	43
17	9,285	6	1,000	1	150	10,085	1,365	1,350	7,370		28,200	23,148	57	92,045	44
60	18,514			7	1,400	1,057	300	147	610		1,765	810	965	39,140	45
21	10,852	6	1,077			6,989	4,221	415	2,353		23,529	22,880	649	85,139	46
146	71,093			2	675	9,929	5,752	416	2,761	1,000	133,624	132,881	743	287,487	47
92	27,000					1,242	180	174	838		11,863	2,586	9,277	59,692	48
84	46,433	14	1,980	6	933	10,758	5,344	484	4,610	320	65,815	63,182	2,133	174,020	49
334	179,932	69	17,855	147	17,623	79,261	19,725	3,974	49,202	6,360	171,979	163,462	8,527	339,787	50
12	7,650					636	145	48	443		10,275	10,240	35	23,095	51
84	39,983			1	325	12,685	7,788	1,593	3,179	125	112,773	112,114	659	234,574	52
4	2,200					923	630	29	204		2,298	2,195	103	9,150	53
97	44,547			2	384	9,574	4,872	884	2,510	1,508	90,017	88,943	1,074	187,829	54
28	13,535	1	400	8	1,713	10,486	1,213	437	8,320	10	26,565	26,379	186	67,400	55
35	24,401	1	650	4	1,325	10,952	6,823	561	3,533	30	34,190	33,201	929	135,245	56
61	20,572					771	393	79	299		32,346	32,296	50	63,400	57
14	3,264	11	1,651	2	243	398		308	30		28,598	27,094	1,504	42,401	58
222	30,285	178	29,062	85	10,679	63,338	4,721	2,065	54,003	2,549	332,532	313,393	14,139	710,124	59

repairs, 1; engraving and diesinking, 1; hand stamps, 2; hardware, 1; hones and whetstones, 1; ironwork, architectural and ornamental, 1; jewelry, 1; liquors, 1; malt, 1; looking-glass and picture frames, 1; optical goods, 1; paper hanging, 1; plastering and stuccowork, 1; saws, 1; ship and boat building, wooden, 1; slaughtering and meat packing, wholesale, 1; slaughtering, wholesale, not including meat packing, 1; smelting and refining, not from the ore, 1; soap and candles, 2; sugar and molasses, refining, 2; trunks and valises, 1; upholstering materials, 2; vinegar and cider, 1; windmills, 1.

TABLE 8.—MANUFACTURES IN LITTLE ROCK

MANUFACTURING AND MECHANICAL INDUSTRIES AND CITIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
1 All industries -----	171	\$3,434,398	\$318,962	\$467,877	\$1,407,104	\$1,240,450	174	292	\$249,943	2,751	\$1,384,722
2 Blacksmithing and wheelwrighting ---	18	16,135	1,000	2,000	7,660	5,475	23	3	1,344	31	14,470
3 Boots and shoes, custom work and repairing.	18	3,501			1,176	2,325	18			10	4,120
4 Carriages and wagons-----	6	33,350	5,750	16,500	13,950	47,150	8	3	2,100	50	22,241
5 Clothing, men's, custom work and repairing.	14	24,870			2,960	21,910	16	2	1,820	63	33,344
6 Confectionery-----	4	30,550			5,800	24,750	5	12	6,690	59	14,514
7 Dyeing and cleaning-----	3	4,945	1,500	250	2,100	1,095	3			6	2,480
8 Foundry and machine shop products---	4	180,165	20,000	28,000	48,192	33,973	2	20	17,336	126	57,500
9 Ice, artificial-----	3	215,713	14,500	34,500	153,534	18,179	2	5	5,400	65	19,400
10 Lock and gun smithing-----	4	1,240			960	280	4			4	1,243
11 Lumber, planing mill products, including sash, doors, and blinds.	5	266,910	9,800	24,650	64,000	168,460	7	21	18,600	215	35,644
12 Millinery, custom work-----	4	19,100			1,100	18,000	6	3	2,700	34	12,400
13 Mineral and soda waters-----	4	9,550	1,400	600	6,750	800	4	1	720	7	2,927
14 Oil, cottonseed and cake-----	3	772,295	127,992	193,018	378,097	63,188	2	28	32,531	172	54,073
15 Painting, house, sign, etc-----	6	13,076			1,425	11,650	9	3	1,780	30	13,826
16 Photography-----	5	7,850			6,100	1,750	6			10	4,666
17 Plumbing, and gas and steam fitting---	4	60,233			3,100	57,133	4	8	8,640	71	40,158
18 Printing and publishing, book and job---	5	80,510			69,500	21,010	6	11	10,332	59	35,310
19 Printing and publishing, newspapers and periodicals.	10	220,400	1,600	1,000	123,800	94,000	8	36	31,720	108	70,350
20 Saddlery and harness-----	5	4,400			1,550	2,850	5	1	720	8	2,348
21 Tinsmithing, coppersmithing, and sheet-iron working.	6	59,790	25,000	15,000	8,125	11,575	8	1	1,500	28	13,364
22 Watch, clock, and jewelry repairing---	5	23,000	3,000	2,000	3,350	14,650	5			11	9,480
23 All other industries ¹ -----	35	1,336,841	107,420	145,359	613,375	570,187	27	134	105,960	1,531	869,859

¹ Embraces awnings, tents, and sails, 1; bicycle and tricycle repairing, 2; brick and tile, 2; carpentering, 2; carpets, rag, 1; carriage and wagon materials, 1; cars and general shop construction and repairs by steam railroad companies, 2; cordage and twine, 1; cotton, compressing, 1; druggists' preparations, not including prescriptions, 1; furniture, cabinetmaking, repairing, and upholstering, 1; furniture, factory product, 1; gas, illuminating and heating, 1; hand stamps, 1;

TABLE 9.—MANUFACTURES IN CITIES

1 Total for cities-----	359	\$4,247,655	\$663,592	\$687,934	\$1,420,482	\$1,255,647	367	216	\$197,923	2,540	\$1,056,839
2 Fort Smith-----	194	1,131,924	121,582	237,360	402,452	370,530	206	74	72,894	1,012	394,868
3 Helena-----	48	563,146	33,990	112,074	278,133	133,949	43	28	29,667	272	103,702
4 Pine Bluff-----	91	2,470,025	716,320	321,850	708,086	722,759	87	106	39,743	1,111	488,646
5 Van Buren-----	81	82,560	11,700	16,650	30,801	23,409	31	8	5,614	145	65,278

BY SPECIFIED INDUSTRIES: 1900.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
2,512	\$1,889,015	191	\$40,915	48	\$4,792	\$295,156	\$47,166	\$19,858	\$221,268	\$7,364	\$1,990,081	\$1,902,129	\$87,952	\$4,644,232	1
34	14,470					3,484	2,625	150	709		17,038	16,026	1,012	51,204	2
10	4,120					2,353	1,968	25	360		6,128	6,088	40	21,889	3
50	22,241					3,536	856	580	2,200		36,419	35,014	1,405	78,995	4
44	27,954	17	5,802	2	88	8,560	4,300	203	4,057		36,293	35,893	400	103,777	5
22	10,490	87	4,024			6,618	3,120	148	3,350		63,824	62,014	1,810	103,980	6
4	1,780	2	720			900	660	50	190		785	650	135	8,270	7
123	57,500					13,617	3,400	1,261	3,956		63,540	57,530	6,010	180,442	8
65	19,400					19,575	660	1,387	17,528		12,712	3,410	9,302	73,234	9
3	960	1	288			605	352	15	238		650	600	50	5,625	10
214	85,344	1	800			21,284	2,886	948	14,950	2,500	281,470	280,470	1,000	400,700	11
		34	12,400			3,300	1,790	250	1,260		30,300	30,300		62,880	12
7	2,927					661	361	61	239		7,093	6,963	130	19,180	13
172	54,073					40,760		4,446	36,314		428,161	409,262	18,899	674,259	14
29	13,616			1	180	2,184	1,083	137	964		12,410	12,290	120	41,951	15
9	4,339	1	327			1,962	1,320	54	588		4,524	4,393	131	19,450	16
71	40,158					3,286	1,920	129	1,237		72,330	72,500	330	142,984	17
51	34,630	5	550	3	600	6,945	3,520	325	2,780	320	47,230	45,585	1,645	129,000	18
90	63,490	17	6,710	1	150	44,687	5,040	920	34,467	4,260	40,940	37,872	3,068	286,346	19
8	2,848					2,240	1,620	73	547		4,385	4,325	60	12,984	20
28	13,364					2,189	1,164	240	785		31,312	30,996	316	62,299	21
11	9,480					1,317	884	128	305		12,459	12,145	314	35,898	22
1,464	855,821	76	10,264	41	3,774	105,093	7,637	7,828	89,344	284	779,578	787,803	41,775	2,038,935	23

ironwork, architectural and ornamental, 1; jewelry, 1; liquors, malt, 1; lumber and timber products, 2; marble and stone work, 1; mattresses and spring beds, 1; monuments and tombstones, 1; paper hanging, 1; roofing and roofing materials, 1; saws, 1; sewing machine repairing, 2; slaughtering and meat packing, wholesale, 1; tobacco, cigars and cigarettes, 1; trunks and valises, 1; upholstering materials, 1.

UNDER 20,000 IN POPULATION: 1900.

2,309	\$987,800	144	\$44,733	87	\$24,556	\$273,292	\$45,567	\$20,529	\$176,328	\$30,888	\$2,257,378	\$2,193,793	\$63,580	\$4,737,239	1
861	347,856	88	25,589	68	20,918	123,891	25,849	7,045	61,797	29,200	390,191	368,154	22,037	2,087,044	2
250	99,333	18	8,630	4	739	44,893	5,585	4,841	33,259	1,258	437,047	421,980	15,067	708,076	3
1,067	473,404	38	8,954	6	1,188	97,445	11,091	8,153	77,791	410	373,921	359,484	23,437	1,765,590	4
131	62,007	5	1,560	9	1,711	7,063	3,092	490	3,481		56,219	53,130	3,089	177,579	5

CENSUS BULLETIN.

No. 111.

WASHINGTON, D. C.

November 12, 1901.

MANUFACTURES.

NEW HAMPSHIRE.

HON. WILLIAM R. MERRIAM,
Director of the Census.

SIR: I transmit herewith, for publication in bulletin form, the statistics of manufacturing and mechanical industries for the state of New Hampshire for the census year 1900, taken in accordance with the provisions of section 7 of the act of March 3, 1899. This section requires that "The schedules of inquiries relating to the products of manufacturing and mechanical establishments shall embrace the name and location of each establishment; character of organization, whether individual, cooperative, or other form; date of commencement of operations; character of business or kind of goods manufactured; amount of capital invested; number of proprietors, firm members, copartners, or officers, and the amount of their salaries; number of employees, and the amount of their wages; quantity and cost of materials used in manufactures; amount of miscellaneous expenses; quantity and value of products; time in operation during the census year; character and quantity of power used; and character and number of machines employed."

In each of the above particulars the requirements of the law have been observed, but certain of the data thus elicited are reserved for publication in the final volumes.

These statistics were gathered partly by the enumerators, and partly by special agents under the general supervision of Mr. William H. Stinson, of Concord, who was chief special agent in charge of the collection of the manufacturing statistics of New Hampshire. Mr. Stinson also rendered valuable assistance in the preparation of the text for the accompanying report.

A number of cities and towns in the state were withdrawn from the enumerators and their manufacturing statistics collected by special agents, in accordance with the further provision of section 7 of the Census Act.

Two cities in New Hampshire contain a population exceeding 20,000 each: Manchester and Nashua. The manufacturing statistics of these 2 cities are presented by specified industries, and the statistics of Manchester are presented in comparison with the returns for the Tenth and Eleventh censuses. The statistics of Nashua were not shown separately in 1880 or 1890, and comparison with

those years are, therefore, not possible in this case. Wherever the phrase "urban manufactures" is used in this bulletin, it applies only to those cities or towns which were withdrawn from the enumerators and committed to special agents, and only to the manufacturing establishments within the corporate limits of such places.

The statistics of New Hampshire are presented in 9 tables: Table 1 showing comparative figures for the state at the several censuses; Table 2 showing all the industries of the state divided between hand trades and the manufactures proper, and also the statistics of educational and penal institutions, and establishments with a product of less than \$500, which two latter classes were not reported at previous censuses; Table 3 showing the statistics of the 10 leading industries of the state for 1890 and 1900; Table 4 showing the totals for the city of Manchester at the censuses of 1880, 1890, and 1900; Table 5 showing the urban manufactures of the state in comparison with the totals for the entire state and the state exclusive of the cities and towns withdrawn from the enumerators; Table 6 showing the statistics for the state by counties; Table 7 showing the statistics for the state by specified industries; Table 8 showing the cities of Manchester and Nashua by specified industries; and Table 9 showing the totals for all industries in each of the cities and towns withdrawn from the enumerators (exclusive of those shown in Table 8).

Table 1 shows the growth of manufactures in New Hampshire for the half century which terminates with the Twelfth Census. The manufacturing statistics of the censuses prior to 1850 were too imperfect and fragmentary in character to make it proper to reproduce them in such a table as a measure of industrial growth in the first half of the century. Owing to changes in the method of taking the census, comparisons between the earlier and later decades, represented in Table 1, should be drawn only in the most general way. Nevertheless, the rate of growth in New Hampshire manufactures may be fairly inferred from the figures given.

In drafting the schedules of inquiry for the census of 1900 care was taken to preserve the basis of comparison with prior censuses. Comparison may be made safely with respect to all the items of inquiry except those relating to

capital, salaried officials, clerks, etc., and their salaries, the average number of employees, and the total amount of wages paid. Live capital, that is, cash on hand, bills receivable, unsettled ledger accounts, raw materials, stock in process of manufacture, finished products on hand, and other sundries, was first called for at the census of 1890. No definite attempt was made, prior to the census of 1890, to secure a return of live capital invested.

Changes were made in the inquiries relating to employees and wages in order to eliminate defects found to exist on the form of inquiry adopted in 1890. At the census of 1890 the average number of persons employed during the entire year was called for, and also the average number employed at stated weekly rates of pay, and the average number was computed for the actual time the establishments were reported as being in operation. At the census of 1900 the greatest and least numbers of employees were reported, and also the average number employed during each month of the year. The average number of wage-earners (men, women, and children) employed during the entire year was ascertained by using 12, the number of calendar months, as a divisor into the total of the average numbers reported for each month. This difference in the method of ascertaining the average number of wage-earners during the entire year may have resulted in a variation in the number, and should be considered in making comparisons.

At the census of 1890 the number and salaries of proprietors and firm members actively engaged in the business or in supervision were reported, combined with clerks and other officials. In cases where proprietors and firm members were reported without salaries, the amount that would ordinarily be paid for similar services was estimated. At the census of 1900 only the number of proprietors and firm members actively engaged in the industry or in supervision was ascertained, and no salaries were reported for this class. It is therefore impossible to compare the number and salaries of salaried officials of any character for the two censuses.

Furthermore, the schedules for 1890 included in the wage-earning class, overseers, foremen, and superintendents (not general superintendents or managers), while the census of 1900 separates from the wage-earning class such salaried employees as general superintendents, clerks, and salesmen. It is possible and probable that this change in the form of the question has resulted in eliminating from the wage-earners, as reported by the present census, many high-salaried employees included in that group for the census of 1890.

In some instances, the number of proprietors and firm members, shown in the accompanying tables, falls short of the number of establishments reported. This is accounted for by the fact that no proprietors or firm members are reported for corporations or cooperative establishments. The number of salaried officials, clerks, etc., is the greatest number reported employed at any one time during the year, and this number may appear excessive as compared with the amount of salaries paid. The seeming inconsis-

tency is due to the large number of establishments reporting clerks employed but a short period, who received salaries that would be small if reckoned as for the entire year.

The reports show a capital of \$100,929,661 invested in manufactures and mechanical industries in the 4,671 establishments reporting for the state. This sum represents the value of land, buildings, machinery, tools, and implements, and the live capital utilized, but does not include the capital stock of any of the manufacturing corporations of the state. The value of the products is \$118,669,308, to produce which involved an outlay of \$2,290,210 for salaries of officials, clerks, etc.; \$27,620,247 for wages; \$6,356,131 for miscellaneous expenses, including rent, taxes, etc.; and \$66,348,594 for materials used, mill supplies, freight, and fuel. It is not to be assumed, however, that the difference between the aggregate of these sums and the value of the product is, in any sense, indicative of the profits in the manufacture of the products during the census year. The census schedule takes no cognizance of the cost of selling manufactured articles, or of interest on capital invested, or of the mercantile losses incurred in the business, or of depreciation in plant. The value of the products given is the value as obtained or fixed at the shop or factory. This statement is necessary in order to avoid erroneous conclusions from the figures presented.

The value of products for the state, \$118,669,308, is the gross value, and not the net or true value. The difference between these two should be carefully noted. The gross value is found by adding the values of products in the separate establishments. But the finished product of one establishment is often the raw material for another. In such cases the value of the former reappears in the latter and thus the original cost of certain materials may be included several times in the gross value. The net or true value is found by subtracting from the gross value the value of all materials purchased in a partly manufactured form. In this way the duplications in the gross value are eliminated.

At the census of 1890 the schedule was so framed that it was impossible to find the net or true value. In the present census the schedule asked for the value of the materials in two classes, those purchased in the crude state and those purchased in the partly manufactured form. From the answers to these questions the net or true value of products may be computed. Thus, for New Hampshire, the gross value of products for 1900 was \$118,669,308. The value of materials purchased in a partly manufactured form was \$41,443,740. The difference between them, \$77,225,568, is the net or true value of products, and represents the increase in the value of raw materials resulting from the various processes of manufacture.

Very respectfully,



Chief Statistician for Manufactures.

NEW HAMPSHIRE.

Table 1 shows the manufacturing and mechanical industries of the state of New Hampshire as returned at the censuses of 1850 to 1900, inclusive, with the percentages of increase for each decade. This table also presents the average number of wage-earners employed by manufacturing establishments, in comparison with the total population of the state, and the value of the land and buildings owned and reported by manufacturers as capital, in comparison with the assessed value of all real estate and improvements.

TABLE 1.—COMPARATIVE SUMMARY, 1850 TO 1900, WITH PER CENT OF INCREASE FOR EACH DECADE.

	DATE OF CENSUS.						PER CENT OF INCREASE.				
	1900	1890	1880	1870	1860	1850	1890 to 1900	1880 to 1890	1870 to 1880	1860 to 1870	1850 to 1860
Number of establishments	4,671	3,229	3,181	3,342	2,592	3,211	44.7	1.5	14.8	28.9	119.3
Capital	\$100,929,061	\$79,875,160	\$51,112,263	\$36,023,748	\$23,274,094	\$18,242,114	27.2	55.3	41.9	54.8	27.6
Salaries of officials, clerks, etc., number	2,193	23,250	(3)	(3)	(3)	(3)	132.5	---	---	---	---
Salaries	\$2,290,210	\$2,820,764	(3)	(3)	(3)	(3)	11.3	---	---	---	---
Wage-earners, average number	70,419	60,111	48,881	40,783	32,340	27,092	17.1	23.1	19.7	26.1	19.4
Total wages	\$27,620,247	\$21,927,290	\$14,814,793	\$13,823,031	\$8,110,561	\$6,123,876	26.0	48.0	7.2	70.4	32.4
Men, 16 years and over	46,847	37,509	29,356	25,829	18,379	14,103	24.9	27.8	13.7	40.5	30.3
Wages	\$20,704,590	\$15,706,723	(3)	(3)	(3)	(3)	31.8	---	---	---	---
Women, 16 years and over	21,521	20,933	16,184	12,775	13,961	12,989	4.7	29.3	26.7	18.5	7.5
Wages	\$6,581,156	\$5,973,349	(3)	(3)	(3)	(3)	10.2	---	---	---	---
Children, under 16 years	1,651	1,609	3,291	2,179	(3)	(3)	11.1	149.3	51.0	---	---
Wages	\$331,501	\$247,213	(3)	(3)	(3)	(3)	34.1	---	---	---	---
Miscellaneous expenses	\$6,856,131	\$4,363,192	(4)	(4)	(4)	(4)	45.7	---	---	---	---
Cost of materials used	\$66,348,594	\$47,794,152	\$43,552,462	\$44,577,967	\$20,539,857	\$12,745,466	38.9	9.6	12.3	117.0	61.2
Value of products, including custom work and repairing	\$118,669,308	\$85,770,540	\$73,978,028	\$71,038,249	\$37,586,453	\$23,164,503	38.4	15.9	4.1	89.0	62.3
Total population	411,588	376,530	346,991	318,300	326,073	317,976	9.3	8.5	9.0	12.4	2.5
Wage-earners engaged in manufactures	70,419	60,111	48,881	40,783	32,340	27,092	17.1	23.1	19.7	26.1	19.4
Per cent of total population	17.1	16.0	14.1	12.8	9.9	8.5	---	---	---	---	---
Assessed value of real estate	\$162,813,289	\$141,729,716	\$122,733,124	\$85,281,288	\$59,638,346	\$67,839,108	14.9	15.5	44.0	42.9	12.1
Value of land and buildings invested in manufactures ⁶	\$24,519,807	\$19,277,415	(3)	(3)	(3)	(3)	27.2	---	---	---	---
Per cent of assessed value	15.1	13.6	---	---	---	---	---	---	---	---	---

¹ Decrease.

² Includes proprietors and firm members, with their salaries; number only reported in 1900. (See Table 7.)

³ Not reported separately.

⁴ Not reported.

⁵ As given in "Valuation and Taxation, State of New Hampshire, for 1900," page 41.

⁶ Does not include value of rented property.

Table 1 reveals the generally steady growth of the manufacturing industries of New Hampshire during the half century. This progress becomes the more striking when compared with the slow growth of population. Since 1850 the population has increased only 29.4 per cent, but the average number of wage-earners has increased from 27,092 to 70,419, a gain of 159.9 per cent. The wage-earners in 1900 constituted 17.1 per cent of the total population, while in 1850 they constituted only 8.5 per cent. Probably the best indication of the importance of the wage-earning class is afforded by the greatest number employed at any one time during the year. In 1900 this was 86,776, or 21.1 per cent of the total population of the state. The increase in the number of wage-earners decade by decade indicates that the growth in manufactures throughout the entire period was rapid and fairly uniform. The value of products and the amount paid for wages as given in the table show greater fluctuations. The values for 1870, however, were expressed in a currency which was at a discount in gold, and should, therefore, be reduced by about

one-fifth for purposes of comparison with other census years. The decade from 1890 to 1900 shows an increase in the value of products of 38.4 per cent, which is greater than for any decade since 1870.

The result of this half century of development is that manufacturing has now become the leading industry of New Hampshire, while in 1850 the leading position was held by agriculture. The manufactures are mostly located in the southern part of the state. The proximity of this section to the business and financial center of New England, the abundant waterpower, and the excellent harbor at Portsmouth are important elements which have contributed to the development of its manufactures.

Table 2 divides the industries of the state between the hand trades and the manufactures proper. This table also gives the statistics for educational and penal institutions, and establishments with a product of less than \$500; these were not reported at previous censuses, and therefore are omitted from the other tables and their use confined to Table 2.

TABLE 2.—SUMMARY FOR ALL ESTABLISHMENTS.

CLASSES.	Number of establishments.	Capital.	Proprietors and firm members.	WAGE-EARNERS.		Miscellaneous expenses.	COST OF MATERIALS USED.				Value of products, including custom work and repairing.
				Average number.	Total wages.		Total.	Purchased in raw state.	Purchased in partially manufactured form.	Fuel, freight, etc.	
Total	5,267	\$101,370,866	5,754	70,786	\$27,654,404	\$6,371,491	\$66,505,701	\$22,135,667	\$41,573,124	\$2,796,910	\$118,935,902
Hand trades ¹	2,211	3,192,864	2,417	5,158	2,312,078	392,350	3,361,685	7,273	3,251,778	102,629	8,308,491
Educational and penal institutions	3	130,790		186	20,508	2,911	107,849	19,500	87,444	905	153,310
Establishments with a product of less than \$500.	598	310,415	627	181	13,649	12,449	49,258	7,270	41,940	48	163,234
All other establishments	2,460	97,736,767	2,710	65,261	25,303,169	5,963,231	62,936,909	22,101,619	35,191,662	2,633,328	110,360,817

¹ Includes bicycle and tricycle repairing, 65; blacksmithing and wheelwrighting, 533; boots and shoes, custom work and repairing, 193; carpentering, 231; clothing, men's, custom work and repairing, 129; clothing, women's, dressmaking, 209; dyeing and cleaning, 9; furniture, cabinetmaking, repairing, and upholstering, 48; lock and gun smithing, 17; masonry, brick and stone, 96; millinery, custom work, 191; painting, house, sign, etc., 231; paper hanging, 7; plastering and stuccowork, 4; plumbing, and gas and steam fitting, 108; sewing machine repairing, 5; taxidermy, 3; watch, clock, and jewelry repairing, 127.

Of the 5,267 establishments of all classes, shown in this table, 2,804, or 53.2 per cent, were small shops included in the groups of "hand trades" and "establishments with a product of less than \$500." The value of the products for these establishments, consisting principally of the sums received for custom work and repairing, amounted to

\$8,471,775, or only 7.1 per cent of the total value of the products of the state.

In addition to the 5,267 active establishments in the state during the census year, with a capital of \$101,370,866, shown in Table 2, there were 48 idle establishments, with a capital of \$822,951, divided as follows:

INDUSTRIES.	Number of idle establishments.	Capital.	INDUSTRIES.	Number of idle establishments.	Capital.
Boots and shoes, factory product	2	\$100,000	Marble and stone work	2	\$24,200
Brick and tile	5	11,250	Painting, house, sign, etc.	1	10,000
Electrical apparatus and supplies	1	31,593	Wood, turned and carved	1	20,000
Flouring and grist mill products	2	11,000	Woodenware, not elsewhere specified	1	20,000
Foundry and machine shop products	2	195,000	Woolen goods	3	274,350
Kaolin and other earth grinding	1	14,300	Worsted goods	1	29,000
Lumber and timber products	12	50,295	All other	14	81,958

TABLE 3.—COMPARATIVE SUMMARY OF TEN LEADING INDUSTRIES.

INDUSTRIES.	Year.	Number of establishments.	Capital.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Average number.	Total wages.			
Total for selected industries for state	1900	1,040	\$76,847,141	49,828	\$18,564,054	\$3,762,119	\$52,059,848	\$35,488,460
	1890	1,001	60,054,099	45,271	15,871,810	3,099,687	37,609,452	33,855,641
Increase, 1890 to 1900		39	16,793,042	4,557	2,692,244	662,432	14,250,396	21,632,809
Per cent of increase		3.9	28.0	10.1	17.0	21.4	37.7	33.9
Per cent of total of all industries in state	1900	22.3	76.1	70.8	67.2	59.2	73.5	72.0
	1890	31.0	75.7	75.3	72.4	71.0	29.2	74.4
Boots and shoes, factory product	1900	67	8,123,481	12,007	4,971,951	453,706	16,569,725	23,405,558
	1890	64	3,956,774	7,912	3,337,167	256,643	6,743,322	11,936,033
Cheese, butter, and condensed milk, factory product	1900	53	311,308	119	68,323	21,229	1,226,388	1,467,593
	1890	23	71,992	51	24,495	7,777	420,767	494,466
Cotton goods	1900	23	29,261,335	20,454	6,759,422	1,502,420	11,960,102	22,998,249
	1890	27	26,801,933	19,333	6,242,204	1,340,222	12,962,939	21,958,002
Flouring and grist mill products	1900	149	1,004,990	185	82,214	33,084	2,201,909	2,505,936
	1890	121	905,075	174	78,737	44,742	2,061,208	2,358,616
Foundry and machine shop products	1900	37	2,394,474	1,979	945,154	198,077	1,211,637	3,049,334
	1890	76	3,658,689	2,034	970,584	131,513	1,296,963	2,895,716
Hosiery and knit goods	1900	22	2,525,286	2,492	790,558	175,118	1,319,170	2,592,829
	1890	37	2,706,065	3,121	931,519	241,201	1,777,595	3,431,922
Leather, tanned, curried, and finished	1900	12	1,900,277	552	219,292	145,003	2,053,367	2,664,942
	1890	18	1,303,992	668	301,077	93,238	2,303,363	2,938,209
Lumber and timber products	1900	553	11,332,114	4,138	1,654,965	238,129	4,927,399	9,218,310
	1890	570	7,592,167	5,370	1,600,993	395,137	2,607,473	5,641,445
Paper and wood pulp	1900	29	3,163,031	2,391	1,036,856	539,955	3,953,334	7,204,733
	1890	15	1,221,491	520	220,122	65,747	715,081	1,282,022
Wool manufactures	1900	45	11,230,295	5,461	2,045,316	455,398	8,636,567	10,331,056
	1890	50	11,335,921	6,038	2,165,112	613,467	6,914,741	10,769,240

The 10 leading industries of the state in 1900, shown in Table 3, embrace 1,040 establishments, or 22.3 per cent of the total number in the state; \$76,847,141, or 76.1 per cent of the total capital; 49,828, or 70.8 per cent of the total number of wage-earners; \$18,564,054, or 67.2 per cent of the total wages; and \$85,488,450, or 72 per cent of the total value of products. In the discussion of Table 3 which follows, these industries are ranked with reference to the value of the products. It appears that the leading industry of the state is the manufacture of boots and shoes. The 67 establishments reported for this industry gave employment to 12,007 wage-earners, or 17.1 per cent of the wage-earners employed in the state, and the products were valued at \$23,405,558, or 19.7 per cent of the total value of the products of the state. In 1890 the products were valued at \$11,986,003. The increase from 1890 to 1900 was \$11,419,555, or 95.3 per cent.

The boot and shoe factories are largely located in cities and towns in the southern part of the state where the industry early gained a foothold, due to the proximity of these places to Lynn and Haverhill, shoe centers of Massachusetts. Until the application of machinery to the industry, after the war of the Rebellion, stock for shoes was cut in the factories located in these centers, and put out for manufacture to the people in the adjoining towns of the state and in New Hampshire. So great became the demand for this kind of labor between the years 1825 and 1850 that "nearly every boy in the southeastern towns of New Hampshire who could hold a lapstone was either an apprentice or a full-fledged workman."¹ The work was carried on either in the houses of farmers or in small shops. In 1856, in the typical town of Northwood, there were at least 100 of these small shoemaking shops. The introduction of machinery displaced this labor and the various towns established local factories to retain their shoemaking population. There is record of the building of 27 shoe factories between 1870 and 1895 by associations of business men in almost as many cities and towns of the state. These were leased to experienced shoe manufacturers, usually from Lynn or Haverhill, and were generally exempted from local taxation for ten years.²

The manufacture of cotton goods, for years the leading industry of the state, now ranks second with 23 establishments, having a capital of \$29,261,835; 20,454 wage-earners; and products valued at \$22,988,249; as compared in 1890, with 27 establishments; \$26,801,933 capital; 19,383 wage-earners; and products valued at \$21,958,002. The importance of the industry is due largely to the water-power of the state. In 1804, fourteen years after Samuel Slater built the first successful cotton factory in the country at Pawtucket, R. I., one of his employees, Charles Robbins, constructed a mill at New Ipswich, N. H.³ Five years

later Benjamin Pritchard, housewright of the New Ipswich mill, established a mill where the city of Manchester now stands.⁴ The growth of the industry has been steady. "In 1826 four hundred distinct buildings for the manufacture of cotton had been built in the United States, and of these 50 belonged to New Hampshire,"⁵ while the value of the land and buildings used for this purpose in the state in 1900, together with the machinery, amounted to \$15,685,459.

Wool manufactures rank third in importance with 45 establishments, having a capital of \$11,280,295; 5,461 wage-earners; and products valued at \$10,381,056, as compared in 1890 with 50 establishments; 6,038 wage-earners; and products valued at \$10,769,240. In 1801 at New Ipswich, James Sanderson established the first carding mill in the state. This developed gradually into a full-fledged woolen mill.⁶ In 1823 there were 307 carding machines in the state, 256 fulling mills, and 18 woolen factories.⁷ The value of the products shows a decrease of 3.6 per cent since 1890, due in part to the lower prices of woolen and worsted goods.

The manufacture of lumber and timber products ranks fourth among the industries of the state with 553 establishments having a capital of \$11,382,114; 4,188 wage-earners; and products valued at \$9,218,310. The value of the products in 1890 was \$5,641,445, showing an increase during the last decade of \$3,576,865, or 63.4 per cent. This is the oldest manufacturing industry in the state. New Hampshire, unlike several of the neighboring colonies, was founded for the purposes of trade, the intention of Captain Mason, the proprietor of the region, being to exploit its lumber and fisheries. He accordingly procured from Denmark several men "skilled in the sawing of plank" who established previous to 1635, near Portsmouth, what is claimed to be the first sawmill in New England of which there is any distinct record.⁸ The original forests of white pine, chiefly in the Connecticut Valley, are now practically exhausted, but over large areas there has been a second growth and this, together with the spruce of the northern part of the state, is being used by the mills.⁹ In 1896 it was estimated that forests still covered more than 60 per cent of the area of the state.¹⁰

The manufacture of paper and wood pulp is fifth in rank with 29 establishments, having a capital of \$8,163,081; 2,391 wage-earners; and products valued at \$7,204,733, including sulphite fiber, valued at \$2,711,278; news paper, valued at \$2,078,604; and bogus or wood manila paper, valued at \$629,401. There was a very decided growth

⁴ *Ibid.*, page 150.

⁵ *History of New Hampshire*, by Edwin D. Sanborn, page 376.

⁶ *Bulletin of the National Association of Wool Manufacturers*, Vol. XXIX, page 238.

⁷ *Gazetteer of the State of New Hampshire, 1823*, by John Farmer and J. B. Moore, page 30.

⁸ *History of Mason, New Hampshire*, by J. B. Hill, pages 10 and 11, and *History of American Manufactures*, by J. L. Bishop, Vol. I, page 95.

⁹ *Census of 1880*, Vol. IX, *The Forests of North America*, page 496.

¹⁰ *The New England States*, Vol. III, page 1680.

¹ Report of the New Hampshire Bureau of Labor, 1895-1896, page 9.

² *Ibid.*, pages 17 to 37.

³ *The New England States*, edited by W. T. Davis, Vol. I, page 149.

in these manufactures during the last decade, the value of the products in 1890 being \$1,282,022, an increase during this period of \$5,922,711, or 462 per cent. The industry existed in the state as early as 1823, and 12 paper mills were reported for that year.¹ In addition to the waterpower of the state available for this manufacture, there is also an abundance of spruce, the variety of wood more largely used than any other for material in this industry. Wood, wood pulp, and wood fiber have in recent years become the most important materials used in the manufacture of paper, and in 1900 constituted 40 per cent of the total cost of materials used in this industry in the United States.

The foundry and machine shop industry ranks sixth with 87 establishments, having a capital of \$2,894,474; 1,979 wage-earners; and products valued at \$3,049,334, as compared in 1890 with 76 establishments; \$3,658,689 capital; 2,034 wage-earners; and products valued at \$2,895,716. This industry has had a steady growth during recent years.

The tanning and currying of leather ranks seventh with 12 establishments, having a capital of \$1,900,277; 552 wage-earners; and products valued at \$2,664,942, as compared in 1890 with 18 establishments; \$1,303,992 capital; 668 wage-earners; and products valued at \$2,988,209. The abundance of bark suitable for tanning purposes, early made the tanning of leather a considerable industry. What is said to be "practically the first incorporated company in this business" in the country was formed in 1809, under the name of the Hampshire Leather Manufacturing Company of Massachusetts, to operate extensive tanneries in New Hampshire belonging to Colonel William Edwards. This noted leather manufacturer had established himself in the state as early as 1790, and because of the extensive improvements he introduced in the mechanism and arrangement of the tannery, left a considerable impress upon the business of that period.² In 1823 there were 193 "bark mills" and 304 tanneries in the state.³ In 1880 the value of the leather, tanned and curried, reached its maximum, \$4,477,350, and has declined since that date owing to the increasing scarcity of bark.

The manufacture of hosiery and knit goods ranks eighth with 22 establishments, having a capital of \$2,525,286; 2,492 wage-earners; and products valued at \$2,592,829, as compared in 1890 with 37 establishments; \$2,706,065 capital; 3,121 wage-earners; and products valued at \$3,481,922. The industry became properly a branch of manufacturing by the successful use of a power machine at Cohoes, N. Y., in 1832, and in 1839 the largest stocking factory in New

England began operations at Portsmouth, N. H.⁴ In 1861 the first knitting mill was erected at Laconia, a town which has since been noted as a center for the industry.⁵

Flour and grist milling ranks ninth with 149 establishments, having a capital of \$1,004,990; 185 wage-earners; and products valued at \$2,505,936. This was naturally one of the earliest industries in the state. In 1661 permission to erect a windmill for grinding corn was granted to Captain Pendleton by the selectmen of Portsmouth.⁶ The value of the products in 1900, as compared with 1890, shows an increase of \$147,320, or 6.2 per cent.

The last of the industries included in Table 3, is the factory manufacture of cheese, butter, and condensed milk. The number of establishments reported is 53, with 119 wage-earners, and a product valued at \$1,467,503. The increase in the value of the product in 1900 over 1890 is \$973,037, or 196.8 per cent.

URBAN MANUFACTURES.

Table 4 shows the totals for the manufacturing and mechanical industries of the city of Manchester as returned at the censuses of 1880, 1890, and 1900, with the percentages of increase.

TABLE 4.—COMPARATIVE SUMMARY, MANCHESTER, 1880, 1890, AND 1900, WITH PER CENT OF INCREASE.

	DATE OF CENSUS.			PER CENT OF INCREASE.	
	1900	1890	1880	1890 to 1900	1880 to 1890
Number of establishments.....	577	386	121	49.5	219.0
Capital.....	\$22,426,125	\$22,424,968	\$15,149,153	(¹)	48.0
Wage-earners, average number.....	19,032	15,351	10,838	24.0	41.6
Total wages.....	\$7,030,966	\$5,950,234	\$3,370,404	18.2	76.5
Miscellaneous expenses.....	\$1,543,205	\$1,072,875	(²)	44.3	
Cost of materials used.....	\$14,755,640	\$11,872,289	\$7,901,066	24.8	50.3
Value of products, including custom work and repairing.....	\$26,607,600	\$20,187,925	\$14,136,305	31.8	42.8

¹ Less than one-tenth of 1 per cent.

² Not reported.

It appears from Table 4 that there has been a considerable increase during the past decade in the manufactures of the city. The number of establishments increased from 386 to 577, or 49.5 per cent; the average number of wage-earners from 15,351 to 19,032, or 24 per cent; and the value of the products from \$20,187,925 to \$26,607,600, or 31.8 per cent. There were 577 establishments in Manchester in 1900, or 12.4 per cent of the entire number in the state. These establishments had a combined capital amounting to \$22,426,125, or 22.2 per cent of all the capital employed in the state. Of the wage-earners, 19,032, or 27 per cent of all in the state were employed

¹ Gazetteer of the State of New Hampshire, 1823, by John Farmer and J. B. Moore, page 30.

² One Hundred Years of American Commerce, edited by C. M. Depew, Vol. 2, page 495.

³ Gazetteer of the State of New Hampshire, 1823, page 30.

⁴ Eighth Census of the United States, 1860, Manufactures, Introduction, page 43.

⁵ The Illustrated Laconian, compiled by C. W. Vaughan, page 176.

⁶ History of American Manufactures, Vol. I, page 118.

in Manchester. The total amount of wages paid in the city amounted to \$7,030,966, or 25.5 per cent of all wages paid in the state. The value of products, including custom work and repairing, during 1900 was \$26,607,600, or 22.4 per cent of the total products of the state.

Table 5 presents the totals for the manufacturing industries of the 29 cities and towns withdrawn from the enumerators and places them in comparison with the totals for the entire state, and the state exclusive of these cities and towns.

TABLE 5.—URBAN MANUFACTURES.

	Number of establishments.	Capital.	Proprietors and firm members.	WAGE-EARNERS.		Miscellaneous expenses.	Cost of materials used.	Value of products, including custom work and repairing.
				Average number.	Total wages.			
Total for state	4,671	\$100,929,661	5,127	70,419	\$27,620,247	\$6,356,131	\$66,848,594	\$118,669,308
Total for urban manufactures	3,065	77,225,278	3,326	55,905	22,117,562	5,422,721	52,278,750	92,874,506
Berlin	66	5,098,457	73	1,707	720,776	368,142	2,964,363	5,228,979
Claremont	89	1,767,883	91	1,428	579,624	100,826	1,429,543	2,502,682
Concord	298	4,811,982	355	3,101	1,612,966	412,129	2,563,967	5,357,408
Derry	26	344,504	29	887	369,089	26,892	1,268,872	1,745,489
Dover	184	6,734,230	197	3,289	1,460,278	374,052	3,624,068	6,311,158
Exeter	104	1,507,485	106	1,290	582,756	80,757	1,569,748	2,587,896
Farmington	57	393,509	64	505	189,281	14,918	442,365	786,819
Franklin	92	1,976,868	101	1,291	498,773	83,301	803,515	1,708,889
Greenville	15	728,004	13	477	167,501	30,362	446,029	685,010
Haverhill	44	257,007	46	170	68,103	8,940	215,523	384,519
Keene	160	2,305,729	163	1,832	842,373	131,557	1,682,221	3,088,149
Laconia	189	1,964,510	147	1,682	641,306	113,970	1,293,192	2,389,202
Lancaster	46	248,429	55	103	74,351	38,895	240,036	442,789
Lebanon	80	1,351,326	96	747	277,898	41,659	887,600	1,534,628
Littleton	71	670,392	81	675	215,877	27,103	568,993	952,829
Manchester	577	22,426,125	605	19,032	7,030,966	1,548,205	14,755,640	26,607,600
Milford	77	856,565	91	646	276,876	74,915	524,790	1,027,824
Nashua	251	9,587,390	253	6,442	2,625,898	574,497	6,470,716	11,037,676
Newmarket	29	1,261,519	29	790	267,124	57,884	575,577	1,044,793
Newport	68	610,424	70	737	278,771	39,781	789,017	1,274,829
Pembroke	41	592,855	45	702	227,820	11,310	417,418	775,563
Peterboro	43	643,599	45	364	133,462	20,469	285,982	531,846
Pittsfield	51	564,373	56	601	224,213	16,562	625,112	1,092,069
Portsmouth	176	4,167,545	189	1,809	884,309	851,647	2,204,376	4,813,138
Rochester	96	2,095,788	111	1,913	741,215	127,905	2,555,818	3,812,512
Somersworth	88	3,133,909	89	2,720	806,320	185,680	2,062,927	3,605,666
Tilton	41	180,622	45	219	90,663	13,097	152,484	326,055
Winchester	34	551,793	38	350	144,878	27,103	488,512	787,829
Wolfboro	32	343,456	43	276	114,595	20,168	394,320	586,210
Total for state, exclusive of urban manufactures	1,606	23,704,383	1,801	14,514	5,502,685	933,410	14,074,844	25,794,802
Per cent of urban manufactures to total for state	65.6	76.5	64.9	79.4	80.1	85.3	78.8	78.3

Of the 4,671 establishments in the state, 3,065, or 65.6 per cent, are located in these 29 cities and towns. The capital reported for these establishments is \$77,225,278, or 76.5 per cent of that for the entire state. They furnished employment to 55,905 wage-earners, or 79.4 per cent of the total number; paid \$22,117,562 in wages, or 80.1 per cent of the total amount; and the value of their products, \$92,874,506, formed 78.3 per cent of the total for the state.

Table 6 shows the totals for the state by counties.

Table 7 shows the totals for the state by specified industries.

Table 8 shows the totals for the cities of Manchester and Nashua by specified industries.

Table 9 shows the totals for all industries in the cities and towns withdrawn from the enumerators, exclusive of those shown in Table 8.

TABLE 6.—MANUFACTURES

COUNTIES AND MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
1 The State.....	4,671	\$100,929,661	\$10,108,068	\$14,411,744	\$25,919,078	\$50,490,781	5,127	2,193	\$2,290,210	70,419	\$27,620,247
2 Belknap.....	249	2,809,754	248,260	354,435	750,467	1,456,592	266	84	77,149	2,677	1,001,837
3 Carroll.....	163	1,223,802	835,910	121,540	205,444	557,908	183	21	15,243	830	314,332
4 Cheshire.....	398	5,701,272	451,733	952,024	1,420,928	2,867,592	438	185	161,877	4,320	1,817,874
5 Coos.....	278	10,471,801	2,089,816	1,808,959	3,050,519	4,022,507	321	125	147,886	3,615	1,488,854
6 Grafton.....	477	7,090,272	1,881,066	879,020	1,460,749	2,919,437	523	179	166,665	3,495	1,284,185
7 Hillsboro.....	1,178	33,780,788	2,500,072	4,615,192	10,017,222	19,648,302	1,251	680	784,150	28,925	11,019,768
8 Merrimack.....	664	10,916,634	944,995	1,644,064	2,843,269	5,484,306	761	301	280,041	8,164	3,420,441
9 Rockingham.....	545	9,172,974	706,469	2,184,908	2,093,296	4,238,301	597	249	257,876	6,448	2,740,381
10 Strafford.....	478	18,800,876	774,204	1,933,219	3,058,907	8,034,545	627	247	281,321	9,552	8,504,109
11 Sullivan.....	246	2,961,488	225,538	468,338	1,006,277	1,261,290	270	122	120,032	2,393	959,016

TABLE 7.—MANUFACTURES BY

1 All industries.....	4,671	\$100,929,661	\$10,108,068	\$14,411,744	\$25,919,078	\$50,490,781	5,127	2,193	\$2,290,210	70,419	\$27,620,247
2 Agricultural implements.....	12	112,003	6,870	16,600	27,000	61,533	15	4	2,300	45	16,026
3 Awnings, tents, and sails.....	4	3,850	400	800	650	2,000	4			7	2,875
4 Baskets, and rattan and willow ware.....	4	20,320	1,000	7,800	5,500	6,520	6			28	10,872
5 Bicycle and tricycle repairing.....	65	66,950	2,810	3,190	24,420	36,530	77	1	300	37	15,147
6 Blacksmithing and wheelwrighting.....	538	613,433	63,553	162,254	148,024	289,602	563	1	450	373	192,545
7 Bookbinding and blank book making.....	7	64,400			6,000	58,400	6	1	300	15	5,953
8 Boot and shoe cut stock.....	10	44,965	1,360	9,140	6,265	23,200	13	3	2,050	220	73,582
9 Boot and shoe findings.....	7	101,338	9,400	26,340	69,650	55,948	7	7	7,200	189	60,326
10 Boots and shoes, custom work and repairing.....	193	80,802	3,230	9,160	23,666	38,566	197			187	60,561
11 Boots and shoes, factory product.....	67	8,123,481	124,137	473,961	1,063,569	6,461,704	86	362	357,046	12,007	4,971,954
12 Bottling.....	48	206,823	18,650	28,450	75,381	84,342	59	8	4,163	147	80,145
13 Boxes, fancy and paper.....	16	151,082	3,900	9,300	58,745	79,137	20	11	5,760	214	70,889
14 Boxes, wooden packing.....	31	546,955	28,250	68,400	142,441	307,824	41	23	15,801	712	282,898
15 Bread and other bakery products.....	116	278,864	20,850	60,800	73,987	113,727	131	32	14,618	338	167,925
16 Brick and tile.....	55	655,713	166,900	118,953	111,120	263,740	71	34	17,746	591	227,615
17 Brooms and brushes.....	8	71,025	3,475	3,050	7,160	57,350	6	15	13,908	79	22,594
18 Carpentering.....	231	622,439	45,000	96,230	96,032	385,157	256	6	4,004	1,313	661,565
19 Carriage and wagon materials.....	6	211,826	8,134	32,194	43,042	128,456	6	9	8,516	120	60,355
20 Carriages and wagons.....	73	1,102,675	164,390	202,400	115,840	619,980	82	26	22,583	507	294,919
21 Cars and general shop construction and repairs by steam railroad companies.....	9	850,373	130,808	207,412	265,008	247,650		30	24,201	966	516,980
22 Charcoal.....	4	1,742	150	50	152	1,390	3			2	678
23 Cheese, butter, and condensed milk, factory product.....	53	311,308	15,725	128,414	86,816	80,833	27	34	11,490	119	58,823
24 Cleansing and polishing preparations.....	4	17,581	1,100	800	4,150	11,531	2	14	7,600	12	4,781
25 Clothing, men's, custom work and repairing.....	129	271,256	4,420	14,200	30,587	222,049	146	17	9,308	587	213,676
26 Clothing, men's, factory product.....	9	258,834	6,300	31,778	11,976	208,782	13	25	20,572	245	68,980
27 Clothing, women's, dressmaking.....	209	81,292	7,559	18,536	21,218	48,984	226	2	860	407	119,447
28 Clothing, women's, factory product.....	5	146,762	4,200	18,135	19,272	105,155	23	23	25,689	434	134,027
29 Confectionery.....	18	22,288	3	50	9,025	13,210	19	1	600	47	18,222
30 Cooperage.....	23	687,063	71,350	164,971	102,030	348,712	25	19	13,420	758	201,583
31 Cotton goods.....	23	29,261,835	1,302,874	4,375,217	10,007,368	13,576,376		175	370,777	20,454	6,759,422
32 Cutlery and edge tools.....	6	319,713	7,800	46,510	26,900	239,008	9	21	26,196	357	164,102
33 Dyeing and cleaning.....	9	8,525			5,050	3,475	9	2	606	12	5,031
34 Dyeing and finishing textiles.....	5	888,704	61,000	153,000	173,500	496,204	4	21	28,900	1,023	451,060
35 Electrical apparatus and supplies.....	5	188,233	400	3,800	98,870	80,168	3	11	7,056	94	32,056
36 Electrical construction and repairs.....	8	14,675	25	160	2,100	12,400	8	1	300	24	12,817
37 Flavoring extracts.....	6	17,475	400	1,000	1,784	14,291	5			5	2,748
38 Flouring and grist mill products.....	149	1,004,990	108,260	222,240	200,740	475,750	189	15	10,688	185	82,214
39 Foundry and machine shop products.....	37	2,894,474	885,055	528,671	721,229	1,259,519	76	132	133,703	1,979	945,154
40 Fruits and vegetables, canning and preserving.....	3	21,642	160	1,600	9,542	10,350	6	1	600	19	5,957
41 Furniture, cabinetmaking, repairing, and upholstering.....	48	69,526	4,525	6,450	13,370	45,181	52	3	991	68	33,871
42 Furniture, factory product.....	24	738,965	30,850	136,691	128,782	438,142	22	45	33,549	570	223,948
43 Gas, illuminating and heating.....	13	1,518,718	130,500	336,200	845,251	200,707		35	25,409	121	59,780
44 Gloves and mittens.....	6	351,492	21,200	33,200	25,975	271,117	5	7	9,150	243	82,080
45 Hairwork.....	3	3,550			225	3,325	3			10	4,060
46 Hand stamps.....	3	4,280		150	3,600	530	3			2	676
47 Hardware, saddlery.....	3	182,061	5,000	25,000	38,000	114,061	6	13	13,400	134	62,744
48 Hosiery and knit goods.....	22	2,525,285	208,756	974,085	656,251	1,286,134	16	51	58,011	2,492	790,558
49 Leather, tanned, curried, and finished.....	12	1,900,277	95,695	224,824	176,833	1,309,925	14	51	54,275	552	219,222
50 Liquors, malt.....	5	2,047,576	97,000	1,084,844	443,599	422,138		34	61,578	280	185,300
51 Lock and gun smithing.....	17	14,470	475	1,675	8,650	3,670	17			7	3,190
52 Looking-glass and picture frames.....	12	20,485	50	1,750	2,985	15,700	15	1	600	15	7,692
53 Lumber and timber products.....	553	11,382,114	4,200,128	789,710	2,175,982	4,216,294	681	112	91,167	4,188	1,654,965
54 Lumber, planing mill products, including sash, doors, and blinds.....	57	1,142,201	111,725	196,194	235,633	598,599	70	49	32,686	871	373,556
55 Marble and stone work.....	36	491,836	141,675	48,364	121,058	180,739	38	23	21,860	511	259,650
56 Masonry, brick and stone.....	93	199,230	21,485	23,245	44,610	109,890	110	7	5,120	563	282,946

BY COUNTIES: 1900

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
46,847	\$20,704,590	21,921	\$6,584,156	1,651	\$331,501	\$6,356,181	\$481,504	\$717,116	\$4,801,718	\$355,798	\$66,348,594	\$64,512,124	\$1,836,470	\$118,669,808	1
1,685	721,341	976	278,526	16	1,970	164,082	80,881	15,188	105,138	12,925	2,028,601	1,984,530	44,071	8,710,662	2
709	281,238	120	82,994	1	1,900	44,230	8,076	5,781	29,957	416	847,702	840,839	7,363	1,481,267	3
3,438	1,585,430	747	257,049	135	24,895	326,721	31,469	29,970	257,144	8,138	3,780,167	3,698,282	81,884	6,967,311	4
3,255	1,895,809	343	89,918	17	8,127	563,984	13,073	49,650	374,217	127,044	5,160,557	4,773,685	386,882	9,416,296	5
2,529	1,017,032	924	239,836	42	7,818	187,061	24,988	28,661	129,290	4,112	4,809,020	4,235,458	73,532	7,348,486	6
17,168	7,473,271	11,113	3,403,303	649	143,194	2,369,412	199,280	336,028	1,798,581	85,573	24,381,144	23,768,841	567,808	43,378,281	7
6,082	2,847,810	1,802	527,929	280	44,702	688,070	67,480	58,414	422,941	89,285	6,570,139	6,372,469	197,670	12,778,818	8
4,628	2,139,125	1,756	586,486	64	14,770	1,148,749	87,823	71,777	1,001,988	37,661	7,275,368	7,104,677	170,686	18,150,443	9
5,940	2,649,649	3,298	890,780	314	53,680	741,844	52,159	102,606	557,889	29,190	9,479,196	9,238,218	240,983	15,988,940	10
1,418	643,885	842	277,886	133	37,745	171,988	16,825	19,041	124,623	11,499	2,566,695	2,500,599	60,096	4,438,804	11

SPECIFIED INDUSTRIES: 1900.

46,847	\$20,704,590	21,921	\$6,584,156	1,651	\$331,501	\$6,356,181	\$481,504	\$717,116	\$4,801,718	\$355,798	\$66,348,594	\$64,512,124	\$1,836,470	\$118,669,808	1
44	16,326	1	300			3,465	300	359	2,770	50	22,864	20,574	1,790	79,891	2
6	1,850	1	525			643	475	58	55	60	9,876	8,792	84	9,600	3
27	10,772			1	100	701	386	123	192		7,103	6,925	178	28,211	4
37	15,147					8,227	5,943	323	1,956		89,565	38,252	1,313	99,289	5
378	192,545					34,420	21,689	4,226	8,259	246	269,968	250,812	19,151	918,788	6
8	4,228	7	1,725			3,866	1,398	135	738	1,600	10,381	10,166	216	26,600	7
148	59,294	53	11,188	19	3,150	2,880	601	135	2,144		82,099	80,921	1,178	191,340	8
98	35,401	95	24,825	1	100	5,766	1,418	498	3,555		60,785	58,094	2,641	169,127	9
135	59,685	2	926			15,262	11,713	443	2,591	515	78,492	75,836	2,606	249,337	10
7,755	3,540,273	3,866	1,334,143	886	97,538	453,706	32,580	17,239	398,957	4,930	16,569,725	16,497,944	71,781	23,405,558	11
147	80,145					18,854	7,525	1,558	9,771		473,862	469,429	3,933	746,559	12
55	24,086	169	46,808			10,807	3,581	782	6,129	425	137,594	134,455	3,139	262,193	13
677	277,744	16	3,328	19	1,826	31,612	4,210	4,103	22,949	360	510,916	508,472	2,444	979,758	14
234	158,628	47	13,125	7	1,175	30,042	18,606	2,147	9,239		469,529	453,248	16,281	859,638	15
587	227,012	2	399	2	204	26,287	4,210	4,719	15,868	1,500	146,675	11,546	135,129	537,752	16
45	15,644	30	6,425	4	525	4,350	1,325	389	2,605	80	65,604	65,462	142	165,957	17
1,313	661,565					36,036	7,429	5,396	14,083	59,128	1,000,451	986,601	3,250	2,202,150	18
120	60,355					12,597		1,608	10,989		80,754	75,544	5,210	133,911	19
505	264,099	2	820			40,804	8,227	5,778	30,939	920	278,691	270,652	8,039	754,423	20
966	516,990					36,763		5,018	31,750		523,347	508,567	14,780	1,101,301	21
2	673					6		6			994	994		2,530	22
99	52,562	19	5,611	1	150	21,229	1,112	1,980	18,127	10	1,226,388	1,208,718	17,670	1,467,503	23
6	3,281	6	1,450			6,475	320	47	6,108		12,587	12,237	850	39,005	24
172	96,797	414	116,799	1	80	36,611	25,748	1,603	8,870	890	290,033	286,277	3,756	709,112	25
24	13,882	220	55,032	1	75	18,413	660	897	9,020	7,836	253,300	251,882	1,468	418,924	26
7	2,703	400	116,744			16,383	13,876	421	2,386	200	102,344	99,729	2,615	361,103	27
25	14,680	409	119,397			7,576	720	460	6,396		324,991	322,000	3,850	519,765	28
27	12,552	20	5,670			5,297	3,585	189	1,558	15	58,276	56,764	1,512	119,230	29
716	284,453	12	2,600	30	4,530	26,426	4,403	4,403	21,123	500	319,886	309,671	10,125	812,773	30
9,229	3,599,509	10,362	2,996,626	863	163,237	1,502,420	1,500	314,357	1,173,856	12,707	11,960,102	11,533,340	426,762	22,995,249	31
333	158,530	23	5,385	1	187	16,937	300	2,499	12,035	2,163	113,118	110,718	2,405	365,581	32
10	4,406	2	625			2,124	1,784	15	375		3,513	2,618	900	18,310	33
789	394,919	239	57,041			111,475	260	14,478	96,750		680,469	561,968	74,501	1,328,319	34
58	22,331	41	10,625			3,704	1,850	564	1,500		81,614	81,114	500	181,793	35
24	12,817					1,027	634	48	1,845		17,301	17,164	137	41,382	36
5	2,743					1,079	375	60	644		11,976	11,778	198	29,615	37
185	82,214					33,084	8,721	8,093	16,330		2,201,909	2,191,548	10,361	2,605,396	38
1,927	930,344	61	14,610	1	200	193,077	10,838	19,184	159,922	8,133	1,211,887	1,151,690	60,197	5,049,334	39
11	4,700	8	1,257			270	260	20	20		21,111	19,944	1,167	29,964	40
60	31,485	8	2,336			7,070	4,372	598	2,092	13	60,782	59,415	1,317	146,736	41
511	209,751	44	11,040	15	3,157	52,655	4,750	3,383	44,447	75	321,447	315,694	5,753	734,428	42
121	59,780					129,992	45,206	14,732	70,094		85,839	80,878	5,063	355,794	43
140	55,329	89	24,950	14	1,792	10,728	50	1,676	9,000		171,802	169,833	1,464	296,557	44
4	1,986	6	2,080			1,276	1,338	27	85		2,815	2,815	43	10,450	45
1	468	1	203			500	223	7	265		2,022	1,977	46	6,375	46
129	61,184	5	1,560			19,233	3,600	182	15,451		163,175	158,921	4,254	355,904	47
890	339,632	1,514	434,417	88	17,109	175,118	11,625	9,892	139,061	14,540	1,319,170	1,290,001	29,169	2,692,829	48
521	209,728	31	9,564			145,003	1,400	6,445	139,533	8,635	2,053,367	2,042,593	10,774	2,664,942	49
280	183,300					776,198		36,003	742,195		598,144	560,193	38,946	1,955,628	50
7	3,190					1,844	1,016	88	240		4,719	4,316	403	19,160	51
10	5,892	5	1,800			3,121	1,488	165	1,468		19,003	18,863	140	50,289	52
4,106	1,637,309	70	15,961	12	1,695	238,129	10,410	57,613	158,931	11,275	4,927,399	4,926,458	941	9,213,810	53
856	368,492	15	5,004			65,379	7,307	8,744	49,828		924,687	918,792	5,795	1,590,510	54
510	253,375	1	275			23,503	1,546	1,388	14,307	6,267	142,037	133,799	8,238	564,654	55
563	282,946					54,885	2,305	1,279	7,896		227,837	226,382	1,455	707,209	56

TABLE 7.—MANUFACTURES BY

MANUFACTURING AND MECHANICAL INDUSTRIES.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
57 Mattresses and spring beds.....	4	\$28,900	\$2,000	\$6,000	\$6,850	\$14,050	6	1	\$520	31	\$12,497
58 Millinery, custom work.....	191	318,250	7,750	17,250	19,816	273,484	215	23	9,448	390	117,086
59 Mineral and soda waters.....	7	196,068	91,647	21,400	17,100	65,921	9	11	25,094	32	12,385
60 Monuments and tombstones.....	90	421,749	36,664	36,494	59,428	289,163	126	16	12,905	547	276,272
61 Musical instruments, pianos and materials.	4	262,745	7,200	41,145	37,019	174,381	3	16	17,268	235	99,668
62 Needles and pins.....	5	209,254	14,000	31,000	55,617	108,637	2	9	8,999	408	145,020
63 Optical goods.....	5	53,475			15,875	37,600	2	5	3,120	40	16,550
64 Painting, house, sign, etc.....	231	237,078	18,510	29,110	43,363	151,095	255	11	4,707	648	290,933
65 Paper and wood pulp.....	29	8,163,081	830,200	1,435,860	2,974,608	2,922,813	20	118	173,060	2,391	1,036,856
66 Paper hanging.....	7	2,699			1,975		8			7	3,890
67 Patent medicines and compounds.....	14	60,718	300	2,775	9,253	48,385	12	6	7,523	25	10,072
68 Paving and paving materials.....	13	65,421	8,350	3,230	16,424	37,367	12	5	3,210	125	59,277
69 Photography.....	74	172,898	7,213	22,000	63,185	80,500	82	3	725	150	53,765
70 Plastering and stuccowork.....	4	2,675	200		525	1,950	5			6	2,350
71 Plumbers' supplies.....	3	33,300			3,300	25,000	4	3	2,600	49	19,045
72 Plumbing, and gas and steam fitting.....	108	491,754	6,900	33,206	61,653	389,995	133	45	29,273	483	254,633
73 Printing and publishing, book and job.....	52	132,273		7,950	90,749	31,499	60	2	1,760	90	36,584
74 Printing and publishing, newspapers and periodicals.	75	1,018,763	103,179	103,700	467,622	344,252	74	65	63,084	571	261,371
75 Roofing and roofing materials.....	11	18,730	300	300	4,100	14,030	12	1	900	31	16,632
76 Saddlery and harness.....	106	335,778	32,950	25,510	35,392	241,926	111	2	643	201	93,344
77 Sausage.....	6	8,845	300	1,400	3,395	3,250	8			12	6,165
78 Sewing machine repairing.....	5	970			190	760	2	1	200	16	2,350
79 Ship and boat building, wooden.....	6	10,565	1,500	2,000	1,725	5,300	6			5	3,600
80 Soap and candles.....	13	24,810	3,125	8,075	7,370	6,240	15	1	900	14	5,830
81 Starch.....	4	3,100	925	5,000	1,725	450	7			4	1,465
82 Surgical appliances.....	4	16,800	700	4,100	4,900	7,100	5	1	260	26	8,930
83 Taxidermy.....	3	1,450	200	500	125	625	3			1	400
84 Tinsmithing, coppersmithing, and sheet-iron working.	52	167,507	17,825	35,150	26,930	77,902	60	1	600	92	44,814
85 Tobacco, cigars and cigarettes.....	42	147,199	4,275	11,000	5,280	126,644	48	4	2,150	284	146,342
86 Tools, not elsewhere specified.....	3	84,370	9,100	22,440	24,553	23,277	5	2	1,650	68	30,536
87 Toys and games.....	6	85,640	2,150	15,100	14,000	54,390	7	6	3,300	101	36,173
88 Trunks and valises.....	3	8,850	1,100	1,400	1,550	4,800	3			7	3,664
89 Upholstering materials.....	9	111,839	13,650	15,000	23,500	54,689	13			75	29,047
90 Vinegar and cider.....	30	83,732	4,523	30,715	37,634	10,860	30	16	4,394	21	7,711
91 Watch, clock, and jewelry repairing.....	127	100,295	4,175	11,325	40,130	44,665	188			103	52,407
92 Wirework, including wire rope and cable.	4	10,985			4,760	6,225	5			1	620
93 Wood, turned and carved.....	33	241,616	27,513	52,750	79,914	81,439	41	8	12,300	547	171,110
94 Woodenware, not elsewhere specified.....	3	35,279	3,000	4,000	11,756	16,523	2	1	730	18	6,900
95 Woolen goods.....	43	8,160,673	753,850	1,187,433	1,872,793	4,346,537	37	129	152,574	4,012	1,571,520
96 All other industries ¹	77	6,409,446	228,612	662,330	943,872	4,574,632	65	168	171,166	3,082	1,195,028

¹ Embraces axle grease, 1; belting and hose, leather, 1; bicycles and tricycles, 1; brass castings and brass finishing, 2; brassware, 1; buttons, 1; carpets, rag, 1; cars and general shop construction and repairs by street railroad companies, 1; cars, steam railroad, not including operations of railroad companies, 1; chemicals, 1; china decorating, 1; coffee and spice, roasting and grinding, 1; coffins, burial cases, and undertakers' goods, 1; druggists' preparations, not including prescriptions, 2; electroplating, 2; engraving and diesinking, 2; files, 1; fire extinguishers, chemical, 1; fish, canning and preserving, 1; food preparations, 2; fur goods, 1; glue, 2; grease and tallow, 1; hardware, 1; hats and caps, not including fur hats, and wool hats, 1; hones and whetstones, 1; house furnishing goods, not elsewhere specified, 1; instruments, professional and scientific, 2; iron and steel, forgings, 1; iron and steel, nails and spikes, cut and wrought, including wire nails, 1; jewelry, 1;

TABLE 8.—MANUFACTURES IN CITIES

MANCHESTER.

1	All industries.....	577	\$22,426,125	\$1,708,846	\$2,417,374	\$6,122,417	\$12,177,488	605	844	\$156,258	10,032	\$7,030,966
2	Bicycle and tricycle repairing.....	9	6,410			3,285	3,125	11			9	3,990
3	Blacksmithing and wheelwrighting.....	29	25,800	875	2,700	3,750	13,975	31	1	450	60	33,503
4	Boots and shoes, custom work and repairing.	52	17,539			6,080	11,459	52			58	30,523
5	Boots and shoes, factory product.....	6	1,169,131			153,217	1,015,964	7	92	96,115	2,002	837,292
6	Bottling.....	20	49,406	5,500	7,030	12,256	24,600	25	1	600	52	27,334
7	Bread and other bakery products.....	31	33,125	1,000	1,000	11,800	19,325	37	2	975	81	37,975
8	Carpentering.....	25	174,736	12,640	12,810	15,895	183,361	27			354	170,101
9	Carrriages and wagons.....	9	247,549	54,550	32,750	13,500	146,749	9	12	7,358	110	56,297
10	Clothing, men's, custom work and repairing.	32	63,395			9,970	58,425	35	9	4,194	153	60,011
11	Clothing, women's, dressmaking.....	63	20,662	1,250	2,300	4,772	12,340	67			121	41,001
12	Cotton goods.....	4	12,699,055	840,000	1,490,800	4,510,500	5,857,755		48	143,500	10,616	3,553,413
13	Foundry and machine shop products.....	9	556,613	162,000	63,000	139,549	202,064	7	17	23,230	422	202,305
14	Furniture, cabinetmaking, repairing, and upholstering.	10	26,950	2,500	2,000	2,980	19,470	10	1	300	26	14,155
15	Hairwork.....	3	3,550			225	3,325	3			10	4,066
16	Hosiery and knit goods.....	4	671,695	74,756	47,638	168,049	381,152	2	17	18,550	562	188,041
17	Leather, tanned, curried, and finished.....	4	313,476	40,000	50,000	56,300	167,176	4	6	8,632	61	23,050
18	Lock and gun smithing.....	4	1,000			450	550	4			3	1,850
19	Looking-glass and picture frames.....	4	2,970			470	2,500	6			2	940
20	Lumber and timber products.....	5	135,135	48,725	4,110	15,700	66,600	7			37	17,420
21	Lumber, planing mill products, including sash, doors, and blinds.	5	255,805	48,500	79,344	42,892	85,069	4	6	4,374	115	57,997

SPECIFIED INDUSTRIES: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
28	\$10,131	7	\$2,280	1	\$86	\$1,646	\$559	\$202	\$885		\$29,488	\$27,747	\$1,741	\$53,121	57
2	1,954	386	115,014	2	118	53,259	40,945	2,397	9,812	\$105	405,849	401,781	4,068	770,879	58
30	11,362	2	1,023			69,051	686	672	67,743		71,070	70,596	474	210,108	59
547	376,272					46,902	6,248	1,876	11,217	27,561	249,337	241,421	7,916	858,391	60
235	99,668					10,995	1,000	698	9,297		98,775	97,995	780	393,257	61
231	99,263	177	45,767			5,825	225	968	4,632		27,925	25,483	2,442	261,822	62
30	13,439	10	3,111			5,543	1,750	118	3,680		29,527	29,247	280	67,190	63
648	290,933					22,351	14,358	1,158	5,923	912	198,889	195,432	3,457	725,238	64
223	988,936	168	47,920			539,955	1,910	50,995	365,898	121,152	3,953,334	3,451,769	501,565	7,204,733	65
7	8,890					368	269	81	68		3,548	3,516	32	12,009	66
16	7,779	9	2,294			62,382	953	329	61,100		27,208	26,803	405	166,797	67
125	59,277					1,972	511	451	1,010		33,764	31,943	1,821	143,834	68
55	29,269	89	22,096	6	2,400	21,885	13,576	747	5,165	2,847	69,703	67,303	2,394	246,662	69
5	1,750	1	600			151	114	2	35		1,888	1,855	33	7,300	70
49	19,045					1,145	795		350		37,060	35,420	1,640	65,241	71
482	254,583			1	100	37,540	21,182	3,259	12,009	1,000	631,855	627,443	4,412	1,176,336	72
72	31,851	17	4,583	1	150	9,119	5,483	822	2,444	370	88,636	85,624	3,012	183,116	73
395	196,346	170	64,548	6	977	63,072	16,517	5,285	38,845	2,425	166,524	162,412	14,112	762,500	74
31	16,532					1,408	779	135	563		24,756	24,321	435	57,140	75
192	90,357	9	2,987			24,307	9,819	1,783	12,610	95	181,077	177,657	3,420	393,301	76
11	5,865	1	300			698	340	81	277		28,273	27,990	283	43,060	77
16	2,350					239	253	4	27		1,264	1,250	14	6,100	78
5	3,600					368	110	41	217		2,625	2,475	150	9,793	79
14	5,890					1,539	214	195	1,130		14,233	13,333	900	34,023	80
4	1,465					425		60	365		14,387	14,047	340	18,500	81
20	7,340	6	1,590			488	98	125	260		4,948	4,863	85	22,400	82
1	1,400					81	60	12	12		240	215	25	1,900	83
91	44,214	1	600			9,905	5,258	1,413	3,234		88,395	86,598	1,797	187,540	84
235	132,381	46	13,451	3	510	46,314	5,084	640	39,990		275,569	274,217	1,352	540,698	85
53	25,800	18	4,296	2	440	6,203	60	418	5,725		20,272	19,202	1,070	66,221	86
69	28,585	28	7,075	4	563	15,996	68	319	15,699		71,193	69,125	2,068	135,863	87
7	3,664					656	420	115	121		6,214	6,130	84	11,790	88
75	29,047					7,425	575	715	6,185		64,180	64,149	40	123,238	89
21	7,711					4,950	150	539	4,261		38,237	37,319	918	82,712	90
100	51,570	2	733	1	104	16,446	11,605	625	3,966	250	40,503	38,767	1,736	182,040	91
1	620					1,144	327	32	785		4,205	4,191	14	10,289	92
544	170,804	1	100	2	206	13,504	1,392	1,843	9,264	500	199,547	196,906	2,641	489,348	93
18	6,909					1,514	700	134	680		5,008	4,688	420	22,354	94
2,657	1,181,594	1,299	423,829	86	16,097	346,316	5,756	39,490	301,070		4,741,396	4,613,995	127,401	7,624,062	95
1,829	826,057	1,183	356,701	70	12,870	360,441	14,885	32,142	295,346	18,068	3,743,860	3,628,406	115,454	6,120,253	96

Jewelry and instrument cases, 1; kaolin and other earth grinding, 1; kindling wood, 1; labels and tags, 1; lasts, 1; leather goods, 2; linen goods, 1; liquors, distilled, 1; liquors, vinous, 1; musical instruments and materials, not specified, 1; musical instruments, organs and materials, 1; paper goods, not elsewhere specified, 1; perfumery and cosmetics, 2; pickles, preserves, and sauces, 1; pipes, tobacco, 1; pocketbooks, 1; pottery, terra cotta, and fire-clay products, 2; printing materials, 1; refrigerators, 1; saws, 2; sewing machines and attachments, 1; shirts, 1; shoddy, 2; silk and silk goods, 2; silverware, 1; slaughtering and meat packing, wholesale, 1; sporting goods, 2; stationery goods, not elsewhere specified, 1; sugar and molasses, refining, 1; wheelbarrows, 1; worsted goods, 2.

BY SPECIFIED INDUSTRIES: 1900.

MANCHESTER.

10,302	\$4,410,687	8,236	\$2,511,181	494	\$109,098	\$1,548,205	\$136,448	\$236,948	\$1,161,916	\$12,893	\$14,755,640	\$14,383,656	\$372,084	\$26,607,600	1
9	3,990					1,279	1,086	20	173		5,098	4,788	310	16,870	2
60	33,803					4,531	3,930	92	509		25,352	23,557	1,795	87,454	3
57	29,911	1	612			2,764	2,219	50	495		16,995	16,407	588	75,774	4
1,320	617,726	620	206,230	62	13,336	76,135	9,441	2,139	64,555		2,901,050	2,801,970	12,080	4,052,204	5
52	27,834					5,780	3,053	338	2,389		201,466	200,015	1,451	286,502	6
63	32,186	17	5,664	1	125	5,392	4,424	213	755		138,717	135,621	3,196	219,378	7
354	170,101					8,243	1,549	2,481	4,213		257,624	257,006	618	523,416	8
108	55,477	2	820			6,777	1,187	392	4,038		82,077	51,125	952	165,965	9
55	32,568	98	27,448			10,649	8,561	340	1,648	100	70,265	69,619	646	130,037	10
		121	41,001			3,443	2,949	40	319	135	25,476	25,032	444	99,711	11
4,685	1,785,654	5,578	1,687,116	353	80,643	807,339	168,456	638,933	638,933		5,849,829	5,655,321	194,008	11,723,598	12
412	199,905	10	2,400			22,090	4,330	6,177	11,083		241,876	238,560	3,316	511,208	13
22	12,069	4	1,486			1,905	1,176	220	509		24,997	24,686	411	51,256	14
4	1,986	6	2,080			1,388	1,276	27	35		2,858	2,815	43	10,450	15
178	68,947	363	114,294	21	4,800	73,679	5,000	1,695	63,334	3,500	483,644	476,442	7,202	834,343	16
61	23,050					18,783	1,400	1,113	12,635	3,635	423,143	419,322	3,821	499,184	17
3	1,850					220	208	2	10		781	740	41	4,800	18
8	940					1,364	806	33	525		8,687	8,647	40	15,500	19
37	17,420					5,915	1,230	1,285	1,285	3,400	97,364	97,323	36	165,780	20
115	57,997					15,715	150	2,357	12,703		116,679	115,829	850	213,024	21

TABLE 8.—MANUFACTURES IN CITIES

MANCHESTER—Continued.

MANUFACTURING AND MECHANICAL INDUSTRIES, AND CITIES AND TOWNS.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
22 Marble and stone work	7	\$31,900	\$4,500	\$800	\$7,900	\$18,700	8	7	\$5,000	85	\$20,982
23 Masonry, brick and stone	12	16,850	900	3,200	5,150	7,600	14			39	19,085
24 Millinery, custom work	28	68,740			3,890	65,850	33	2	720	112	36,620
25 Printing, house, sign, etc	24	46,097	5,000	5,000	6,487	29,610	29	3	1,780	194	63,814
26 Photography	9	11,950			7,675	4,275	10	2	350	18	6,951
27 Plumbing, and gas and steam fitting	29	155,314		1,206	16,828	137,280	31	18	12,715	123	64,056
28 Printing and publishing, book and job	13	29,125			19,850	9,775	18			30	14,100
29 Printing and publishing, newspapers and periodicals.	7	310,570	75,000	45,000	91,250	99,320	8	22	23,757	139	80,500
30 Roofing and roofing materials.	4	5,900			1,300	4,600	5			16	8,760
31 Saddlery and harness	10	84,584			3,675	30,859	11	1	468	59	29,943
32 Sausage	4	4,945			3,095	1,850	6			11	5,215
33 Tinmithing, coppersmithing, and sheet-iron working.	4	11,625			3,625	8,000	4			21	8,800
34 Tobacco, cigars and cigarettes	16	102,150	3,900	10,600	1,125	86,525	19	1	650	137	96,469
35 Watch, clock, and jewelry repairing	18	10,675			3,950	6,725	20			24	14,315
36 Wood, turned and carved	3	90,577	16,500	21,000	19,577	33,500	1	6	9,300	356	95,442
37 All other industries ¹	62	5,016,221	321,250	585,066	751,400	3,403,505	50	69	93,290	2,879	1,105,060

¹ Embraces awnings, tents, and sails, 1; baskets, and rattan and willow ware, 1; bookbinding and blank book making, 1; boot and shoe, cut stock, 1; boxes, fancy and paper, 1; boxes, wooden packing, 1; brass castings and brass finishing, 1; brooms and brushes, 1; carpets, rag, 1; cars and general shop construction and repairs by steam railroad companies, 1; cars and general shop construction and repairs by street railroad companies, 1; cheese, butter, and condensed milk, factory product, 1; china decorating, 1; clothing, women's, factory product, 1; coffee and spice, roasting and grinding, 1; coffins, burial cases, and undertakers' goods, 1; confectionery, 2; cooperage, 1; dyeing and cleaning, 2; dyeing and finishing textiles, 1; electrical apparatus and supplies, 2; electrical construction and

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1 All industries	251	\$9,587,890	\$385,900	\$1,313,939	\$2,720,856	\$5,106,645	253	207	\$204,657	6,442	\$2,625,898
2 Bicycle and tricycle repairing	6	3,215			1,515	1,700	7	1	300	5	2,085
3 Blacksmithing and wheelwrighting	12	9,075			4,800	4,275	13			16	10,154
4 Boots and shoes, custom work and repairing	19	4,110			2,600	1,510	19			4	1,565
5 Bottling	4	23,800	1,000	2,000	10,800	10,000	5			18	1,900
6 Bread and other bakery products	10	47,000	6,500	13,000	18,250	14,250	9	3	2,800	59	31,790
7 Carpentering	11	49,350	1,100	6,000	14,350	27,900	11	1	550	71	41,305
8 Clothing, men's, custom work and repairing.	9	27,087			2,723	24,364	11	2	1,200	50	19,410
9 Clothing, women's, dressmaking	20	4,544	500	1,000	1,317	1,227	21	1	360	55	15,586
10 Confectionery	5	7,400			3,400	4,000	5			15	6,210
11 Foundry and machine shop products	12	692,713	85,800	125,169	139,101	342,643	7	38	35,927	567	255,172
12 Furniture, factory product	4	82,700	8,500	22,800	13,600	37,800	2	4	2,453	46	18,093
13 Lock and gun smithing	3	2,025			1,500	525	3				
14 Lumber, planing mill products, including sash, doors, and blinds.	8	309,734	25,000	29,000	56,931	193,753	5	11	9,450	264	101,628
15 Masonry, brick and stone	12	36,250	11,600	1,520	12,980	10,200	11	2	2,000	164	85,100
16 Mattresses and spring beds	3	28,400	2,000	6,000	6,850	13,550	5	1	520	27	11,497
17 Millinery, custom work	20	32,475			2,875	29,600	22	8	2,360	63	15,985
18 Monuments and tombstones	3	10,900	500	3,100	1,100	6,200	5			10	6,400
19 Painting, house, sign, etc	19	21,053			4,410	16,643	21	2	300	81	36,655
20 Patent medicines and compounds	3	19,425			625	18,800	2	3	6,215	7	2,723
21 Paving and paving materials	3	8,850			1,250	7,600	3	1	500	22	8,875
22 Photography	6	4,775			4,250	525	6			6	2,200
23 Plumbing, and gas and steam fitting	9	39,025			7,575	31,450	11	7	5,303	59	31,231
24 Printing and publishing, book and job.	4	8,100			6,200	1,900	5			9	3,525
25 Printing and publishing, newspapers and periodicals.	3	68,400		100	29,500	28,300	1	5	5,504	32	16,342
26 Saddlery and harness	3	6,650			550	6,100	3			6	3,000
27 Tobacco, cigars and cigarettes	6	11,034			1,275	9,759	7	2	500	39	23,521
28 Watch, clock, and jewelry repairing	5	2,025			1,500	525	5			6	3,820
29 All other industries ¹	31	8,037,273	243,400	1,104,300	2,373,529	4,316,044	28	115	127,415	4,741	1,870,276

¹ Embraces baskets, and rattan and willow ware, 1; boots and shoes, factory product, 2; boxes, fancy and paper, 1; boxes, wooden packing, 1; carriages and wagons, 1; cars and general shop construction and repairs by steam railroad companies, 1; clothing, men's, factory product, 1; cooperage, 1; cotton goods, 2; cutlery and edge tools, 1; dyeing and cleaning, 2; electrical construction and repairs, 1; flouring and grist mill products, 1; gas, illuminating and heating, 1; hand stamps, 1;

TABLE 9.—MANUFACTURES IN CITIES AND

1 Total for cities and towns	2,237	\$45,211,763	\$3,032,314	\$7,655,565	\$11,538,468	\$22,985,416	2,403	1,115	\$1,121,738	30,431	\$12,460,693
2 Berlin	66	5,098,457	410,250	746,150	1,932,168	1,959,339	73	58	83,266	1,707	720,776
3 Claremont	89	1,767,833	126,075	312,757	655,814	673,237	91	68	71,473	1,428	579,624
4 Concord	298	4,311,932	441,162	699,897	1,075,941	2,594,932	355	162	144,051	3,101	1,612,908
5 Derry	26	344,504	18,150	39,250	54,437	232,667	29	11	11,250	887	359,089
6 Dover	184	6,784,230	464,770	1,076,639	1,376,908	3,865,913	197	109	142,939	3,289	1,450,273
7 Exeter	104	1,507,485	90,146	222,527	404,631	781,181	106	43	39,265	1,290	582,756
8 Farmington	57	393,509	11,440	60,625	97,828	223,616	64	12	7,401	505	189,281
9 Franklin	92	1,973,868	191,350	412,781	474,742	896,992	101	82	45,294	1,291	493,773
10 Greenville	15	728,004	24,225	162,305	184,575	356,899	13	5	7,609	477	167,501
11 Haverhill	44	257,007	76,700	85,925	34,430	61,952	46	20	4,730	170	68,103

BY SPECIFIED INDUSTRIES: 1900—Continued.

MANCHESTER—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
35	\$20,982					\$1,449	\$191	\$140	\$1,068	\$50	\$20,805	\$19,745	\$560	\$58,800	22
39	19,085					805	320	72	413		14,757	14,587	170	44,251	23
2	779	110	\$35,741			15,809	12,832	540	2,367	70	102,298	101,789	509	196,614	24
134	63,814					4,822	2,585	278	2,009		49,605	49,276	329	149,183	25
10	6,046	8	905			8,787	3,157	44	586		12,937	12,937	30	32,850	26
123	64,056					9,749	6,528	669	2,552		150,164	149,240	924	281,256	27
23	11,900	6	2,050	1	\$150	2,951	2,105	199	562	85	11,489	10,577	862	38,089	28
113	60,004	26	20,496			24,974	8,582	2,011	17,656	1,725	48,396	44,483	3,713	213,712	29
16	8,750					378	235	63	80		9,891	9,190	201	24,100	30
57	27,627	2	1,716			2,838	1,736	201	946		40,244	39,852	392	89,442	31
10	4,915	1	800			578	340	31	207		25,908	25,700	208	37,460	32
20	8,200	1	600			1,774	1,140	70	564		13,330	12,981	349	28,650	33
144	83,559	42	12,760	1	150	29,086	2,598	422	26,071		226,992	226,362	630	400,533	34
24	14,815					1,863	1,357	63	318	125	7,461	7,327	134	32,720	35
356	95,442					4,194	600	891	2,703		185,949	185,899	550	310,476	36
1,599	747,704	1,225	347,462	55	9,894	369,812	43,952	42,839	282,953	68	2,940,166	2,813,981	126,175	4,932,540	37

repairs, 1; electroplating, 1; engraving and diesinking, 2; fire extinguishers, chemical, 1; flavoring extracts, 1; fur goods, 1; furniture, factory product, 1; gas, illuminating and heating, 1; grease and tallow, 1; hand stamps, 1; hardware, 1; jewelry, 1; leather goods, 1; liquors, malt, 1; mineral and soda waters, 1; monuments and tombstones, 2; needles and pins, 2; optical goods, 2; paper and wood pulp, 2; paper hanging, 2; patent medicines and compounds, 1; paving and paving materials, 2; plastering and stucco work, 2; sewing machine repairing, 2; shirts, 1; sugar and molasses, refining, 1; taxidermy, 1; trunks and valises, 1; worsted goods, 1.

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4,221	\$1,924,175	2,134	\$679,626	87	\$22,097	\$574,497	\$45,759	\$67,332	\$461,008	\$408	\$6,470,716	\$6,353,233	\$117,483	\$11,037,676	1
5	2,085					922	704	43	235		5,207	4,930	277	12,945	2
16	10,164					2,231	1,966	100	165		7,882	6,892	490	31,700	3
4	1,565					1,039	961	8	75		4,635	4,283	249	16,320	4
18	1,900					1,960	1,120	149	691		56,185	55,935	200	102,140	5
59	31,790					3,567	1,224	511	1,332		74,250	71,250	3,000	138,180	6
71	41,305					1,193	584	82	527		19,856	19,633	223	79,571	7
16	8,752	34	10,658			4,336	2,619	139	1,578		13,407	13,155	252	59,630	8
9	4,600	55	15,536			1,910	1,604	24	222		9,987	9,636	351	41,930	9
567	255,172	6	1,550			1,660	1,026	84	550		18,300	18,350	450	33,700	10
46	18,093					64,194	400	3,560	59,866	868	328,823	302,215	21,608	847,834	11
264	101,528					5,633	420	533	4,680		14,854	14,304	550	47,435	12
164	85,100					359	304	20	35		892	800	92	3,550	13
20	9,431	6	1,980	1	86	24,636	3,000	2,591	19,095		277,096	277,096		445,500	14
164	85,100					433	128	212	93		9,358	9,261	97	118,730	15
20	9,431	6	1,980	1	86	1,542	475	192	875		26,887	25,362	1,525	48,721	16
10	6,400	63	15,935			6,981	5,881	133	882	35	50,742	49,955	787	97,532	17
81	36,655					666	354	112	200		11,798	11,725	73	25,200	18
3	1,704	4	1,019			1,855	1,520	81	284		12,653	12,333	315	70,320	19
22	8,875					43,912	563	246	48,098		18,080	12,890	140	111,209	20
4	1,550	2	650			369	190	24	155		4,925	4,775	150	18,300	21
59	31,231					1,434	1,320	10	104		1,870	1,635	185	9,950	22
7	3,025	2	500			5,065	2,749	391	1,925		97,367	96,766	601	104,394	23
25	18,118	7	3,224			893	628	69	166		3,405	3,405	338	13,000	24
6	3,000					2,932	1,864	296	772		10,463	9,412	1,051	57,044	25
88	23,380					919	744	125	50		2,654	2,585	69	11,500	26
6	3,820	1	141			6,731	1,138	63	5,530		17,003	16,836	117	56,339	27
2,701	1,219,832	1,954	623,333	86	22,011	719	650	11	58		910	810	100	9,250	28
						386,296	11,558	57,478	317,260		5,376,039	5,291,846	84,193	8,364,752	29

hardware, saddlery, 1; hosiery and knit goods, 1; house furnishing goods, not elsewhere specified, 1; iron and steel, forgings, 1; leather, tanned, curried, and finished, 1; liquors, vinous, 1; marble and stone work, 2; paper goods, not elsewhere specified, 1; paper hanging, 1; refrigerators, 1; roofing and roofing materials, 2; slaughtering and meat packing, wholesale, 1; tinsmithing, coppersmithing, and sheet-iron working, 1; woodenware, not elsewhere specified, 1.

TOWNS UNDER 20,000 IN POPULATION: 1900.

20,886	\$9,711,794	8,792	\$2,600,630	758	\$143,274	\$3,300,019	\$237,623	\$292,800	\$2,471,229	\$298,367	\$31,047,394	\$30,097,325	\$950,069	\$55,229,230	1
1,432	646,634	260	71,167	15	2,975	363,142	5,803	29,071	215,039	118,229	2,964,363	2,658,002	306,361	5,223,979	2
839	376,034	459	166,165	130	37,425	100,826	7,244	13,107	72,015	8,460	1,429,533	1,330,956	48,577	2,502,632	3
2,776	1,503,277	821	109,119	4	570	412,129	48,001	19,245	260,239	84,594	2,668,967	2,500,528	63,439	5,357,403	4
630	256,372	307	102,717			26,392	1,665	1,001	24,026	200	1,268,872	1,259,377	9,495	1,745,489	5
2,167	1,075,001	1,106	371,458	16	3,819	374,052	27,141	49,739	232,887	14,185	3,624,063	3,502,636	121,427	6,811,153	6
839	425,120	388	153,694	18	3,942	80,757	8,866	7,919	61,251	2,721	1,539,743	1,518,499	21,244	2,537,896	7
311	134,727	194	54,554			14,913	3,252	1,533	9,371	762	442,365	438,281	4,084	736,319	8
779	349,767	466	134,232	46	9,724	33,301	5,416	13,342	64,033	505	303,545	760,134	43,411	1,708,839	9
322	123,799	135	40,203	20	3,499	30,362	1,805	8,088	20,334	35	446,029	423,133	22,841	685,010	10
162	61,523	7	1,455	1	120	8,940	1,236	1,554	6,150		215,523	210,385	5,143	334,519	11

TABLE 9.—MANUFACTURES IN CITIES AND

CITIES AND TOWNS.	Number of establishments.	CAPITAL.					Proprietors and firm members.	SALARIED OFFICIALS, CLERKS, ETC.		AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES.	
		Total.	Land.	Buildings.	Machinery, tools, and implements.	Cash and sundries.		Number.	Salaries.	Total.	
										Average number.	Wages.
12 Keene	160	\$2,905,729	\$182,788	\$329,633	\$573,194	\$1,270,164	163	115	\$98,536	1,882	\$842,373
13 Laconia	139	1,964,510	141,167	257,975	513,847	1,051,521	147	42	49,193	1,682	641,306
14 Lancaster	46	248,429	12,850	35,881	64,996	134,702	55	12	10,840	163	74,851
15 Lebanon	80	1,351,326	212,025	269,691	338,238	531,372	96	45	39,430	747	277,398
16 Littleton	71	670,392	36,335	72,720	85,170	475,658	81	16	15,942	675	215,877
17 Milford	77	856,565	72,753	151,287	224,637	407,888	91	36	31,275	646	276,876
18 Newmarket	29	1,261,519	76,450	310,450	526,470	348,149	29	9	15,429	790	267,124
19 Newport	63	610,424	20,765	49,400	156,770	383,489	70	39	37,524	737	278,771
20 Pembroke	41	592,855	19,100	31,380	239,275	253,100	45	14	11,275	762	227,820
21 Peterboro	43	643,590	36,610	130,855	233,772	242,362	45	19	11,971	364	133,462
22 Pittsfield	51	564,373	44,565	80,425	175,276	264,107	56	13	10,013	601	224,213
23 Portsmouth	176	4,167,545	141,284	1,287,703	732,562	2,006,046	189	103	119,658	1,809	384,309
24 Rochester	96	2,095,788	126,320	224,175	338,073	1,407,220	111	65	59,689	1,913	741,215
25 Somersworth	33	3,133,909	21,139	398,306	789,500	1,944,964	39	24	24,468	2,720	806,320
26 Tilton	41	180,622	11,475	25,400	57,365	86,882	45	11	8,239	219	90,663
27 Winchester	34	551,738	30,550	105,490	114,688	301,065	33	13	11,000	350	144,878
28 Wolfboro	32	343,456	32,470	27,935	53,152	229,899	43	14	9,923	276	114,595

TOWNS UNDER 20,000 IN POPULATION: 1900—Continued.

AVERAGE NUMBER OF WAGE-EARNERS AND TOTAL WAGES—continued.						MISCELLANEOUS EXPENSES.					COST OF MATERIALS USED.			Value of products, including custom work and repairing.	
Men, 16 years and over.		Women, 16 years and over.		Children, under 16 years.		Total.	Rent of works.	Taxes, not including internal revenue.	Rent of offices, interest, etc.	Contract work.	Total.	Principal materials, including mill supplies and freight.	Fuel and rent of power and heat.		
Average number.	Wages.	Average number.	Wages.	Average number.	Wages.										
1,458	\$718,452	350	\$118,897	29	\$5,524	\$181,557	\$24,676	\$9,841	\$96,820	\$220	\$1,682,221	\$1,614,837	\$97,384	\$3,083,149	12
1,071	478,549	595	160,787	16	1,970	113,970	22,504	10,820	69,606	11,040	1,293,192	1,260,979	32,213	2,389,202	13
143	69,046	20	5,305	-----	-----	38,895	3,319	1,827	29,484	8,265	240,036	236,568	3,468	442,789	14
468	193,440	277	89,518	2	440	41,659	4,967	4,659	30,863	1,170	887,600	865,999	21,601	1,534,628	15
426	156,468	227	64,932	22	4,427	27,108	5,110	2,922	17,839	1,732	568,993	562,698	6,295	952,829	16
494	235,787	188	38,065	14	3,024	74,915	4,233	4,806	56,503	9,253	524,790	512,333	12,457	1,027,824	17
379	150,593	333	107,941	28	8,590	57,884	1,609	11,285	29,990	15,000	575,577	563,421	12,156	1,044,793	18
366	171,035	371	107,736	-----	-----	39,781	5,296	2,462	31,887	126	789,017	780,755	8,262	1,274,829	19
429	148,856	227	64,382	106	14,582	11,310	2,006	5,285	4,019	-----	417,418	400,311	17,107	775,563	20
228	95,865	134	37,425	2	672	20,469	3,317	3,608	13,209	275	285,982	278,352	7,630	581,345	21
389	167,005	212	57,208	-----	-----	16,562	1,944	3,363	11,255	-----	625,112	620,490	4,622	1,092,069	22
1,383	738,748	416	144,359	10	1,202	851,647	21,991	41,752	776,304	11,600	2,204,376	2,163,250	51,126	4,813,138	23
1,390	603,568	427	118,118	96	19,529	127,905	11,104	12,078	96,013	7,810	2,555,818	2,511,734	44,084	3,812,512	24
1,341	543,201	1,201	236,879	178	26,240	185,680	7,753	27,355	150,512	60	2,062,927	2,028,562	34,365	3,605,666	25
120	54,756	99	35,907	-----	-----	13,097	3,605	843	6,824	1,825	153,484	150,498	2,986	326,055	26
347	144,318	8	560	-----	-----	27,103	743	3,291	23,069	-----	488,512	484,204	4,218	787,829	27
202	90,348	74	24,247	-----	-----	20,163	3,457	984	15,422	300	394,326	390,258	4,068	586,210	28